JVC

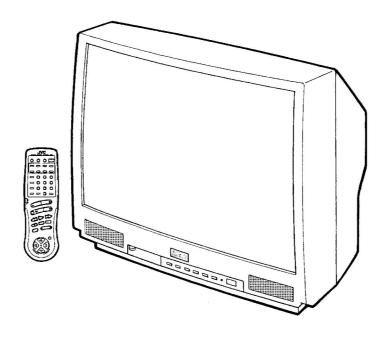
SERVICE MANUAL

COLOUR TELEVISION

BASIC CHASSIS

GB

AV-T3885(BR)



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SPECIFICATIONS

ltem	Contents
Dimensions (W×H×D)	860mm×765mm×603mm
	33-7/8" ×30-1/8" ×23-3/4"
Mass	69.2 kg
	152.3 lbs
Reception Format	
TV RF System	CCIR(M) & (N)
Color System	NTSC / PAL-M / PAL-N
Sound System	BTSC (Multi Channel Sound)
Reception Range	
(Receiving Channels and Frequency)	
VL Band	(02 ~ 06) 55.25MHz ~ 83.25MHz
VH Band	(07 ~ 13) 175.25MHz ~ 211.25MHz
UHF Band	(14 ~ 69) 471.25MHz ~ 801.25MHz
CATV Channels and Frequency	(55.25MHz ~ 801.25MHz)
	Sub Mid, Mid, Super, Hyper and Ultra bands
Closed Caption System	C1, C2, F1, F2 Available
Intermediate Frequency	
Video IF Carrier	45.75MHz
Sound IF Carrier	41.25MHz (4.5MHz)
Color Sub Carrier	NTSC: 3.579545MHz
	PAL-M : 3.57561149MHz
	PAL-N : 3.58205625MHz
Power Input	
RATING	AC 120~240V(50 / 60Hz)
OPERATING.	AC 90~260V(50 / 60Hz)
Power Consumption	145W (Max.) , 105W (Avg.)
Picture Tube	
Screen Size	38inch / 96.5cm , measured diagonally, Full square
High Voltage	32.0kV ±1.3kV (at zero beam current)
Surround System	Build in HYPER SURRONUD
Audio Power Output	5W + 5W
External Input (1, 2)	(Front input terminal is bridge connected with Input 2 terminal)
Video Input	1 Vp-p, 75Ω
Audio Input	500mVrms (-4dBs), High impedance
S-Video Input	Y : 1Vp-p positive, 75Ω (Negative sync provided)
	C : 0.286Vp-p (burst signal), 75 Ω
Audio Output	More than 0 to 1550mVrms (+6dBs)
	Low impedance (400 Hz when modulated 100%)
Speakers	8cm × 12cm Oval Type × 2
Antenna Input Impedance	75Ω(VHF/UHF) Terminal, F-Type Connector
Remote Control Unit	RM-C735-1A (AA/R6/UM-3 dry battery × 2)

Design & specifications subject to change without notice

SAFETY PRECAUTIONS

- The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
- Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
- 3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. Electrical components having such features are identified by shading on the schematics and by (Δ) on the parts list in Service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may cause shock, fire, or other hazards.
- Don't short between the LIVE side ground and ISOLATED (NEUTRAL) side ground or EARTH side ground when repairing.

Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (\pm) side GND, the ISOLATED(NEUTRAL) : (\pm) side GND and EARTH : (\oplus) side GND. Don't short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND and never measure with a measuring apparatus (oscilloscope etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND at the same time.

If above note will not be kept, a fuse or any parts will be broken.

- If any repair has been made to the chassis, it is recommended that the B1 setting should be checked or adjusted (See ADJUSTMENT OF B1 POWER SUPPLY).
- 6. The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage can cause an increase in X-Ray emission, arcing and possible component damage, therefore operation under excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.). To maintain the proper minimum level of soft X-Ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approved by the manufacturer of the complete product.
- 7. Do not check high voltage by drawing an arc. Use a high voltage meter or a high voltage probe with a VTVM. Discharge the picture tube before attempting meter connection, by connecting a clip lead to the ground frame and connecting the other end of the lead through a $10k\Omega$ 2W resistor to the anode button.
- 8. When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.

9. Isolation Check

(Safety for Electrical Shock Hazard)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs, metal cabinet, screw heads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

(1) Dielectric Strength Test

The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 1100V AC (r.m.s.) for a period of one second.

(. . . . Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.)

This method of test requires a test equipment not generally found in the service trade.

(2) Leakage Current Check

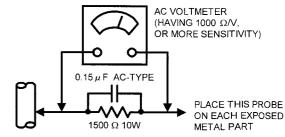
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.).

However, in tropical area, this must not exceed 0.2mA AC (r.m.s.).

Alternate Check Method

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000 ohms per volt or more sensitivity in the following manner. Connect a 1500Ω 10W resistor paralleled by a $0.15\mu F$ AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.).

However, in tropical area, this must not exceed 0.3V AC (r.m.s.). This corresponds to 0.2mA AC (r.m.s.).



GOOD EARTH GROUND

No.51672

FEATURES

- New chassis design enables use of interactive on-screen control.
- Comb filter improved picture quality.
- Full-square CRT reproduces fine textured picture in every detail.
- Wide range voltage AC power input.
- TELETEXT broadcast can be viewed.
- With AUDIO, VIDEO input terminal.
- By the sound multiplex broadcast with MTS system, you can enjoy music programs and sporting events with live realism.
- S-VIDEO input terminal for taking best advantage of Super VHS.
- Variable audio output terminal.
- I2C bus control utilities single chip ICs.
- By selecting the THEATER STATUS picture, you can enjoy pictures with powerful effects.
- Muting button can reduce the audio level to zero instantly.

Manual de Instruções

Modélos: AV-T3885 AV-T3487

Leia o Manual de Instruções. Desta forma, você estará assegurando uma operação segura e livre de erros.

PRECAUÇÕES IMPORTANTES DE SEGURANÇA



AVISO RISCO DE CHOQUE. NÃO ABRA.



PRECAUÇÃO: Para evitar o risco de choque não remova o gabinete do televisor. No interior do aparelho não existem peças que o consumidor possa trocar. Solícite sempre o

Serviço Autorizado JVC.



O símbolo da flecha em forma de raio dentro do triangulo significa que as pessoas devem ficar alertas para o perigo da alta voltagem ao redor da região onde estã aplicado esta etiqueta.



O ponto de exclamação denrto do triangulo significa que são peças importantes e que devem ser substituídas apenas por peças originais. Dentro do manuai de manutenção existe literatura informando o procedimento de como manusear tais peças.

ATENÇÃO: PARA PREVENIR O RISCO DE INCÊNDIO OU CHOQUE, NÃO EXPONHA O APARELHO À CHUVA OU UMIDADE.

AVISO: AS RECOMENDAÇÕES ABAIXO DEVERÃO SER OBSERVADAS PARA A SUA SEGURANÇA E A DE SEU PRODUTO.

- Opere o televisor somente com a alimentação especificada.
- Evite dabos no plugue e no cabo de força do televisor.
- S.Evite fazer instalação incorreta e nunca coloque o televisor em lugares com pouca ventilação.
- 4. Não permita o derramamento de líquidos ou de objetos metálicos no interior do aparelho.

 5. No caso de ocorrer alguma falha, desligue o
- No caso de ocorrer alguma falha, desligue o televisor da tomada da rede elétrica e solicite o Serviço Autorizado JVC.

As alterações ou modificações realizadas por pessoas não credenciadas pela JVC do Brasil invalidam a garantia do seu televisor.

 Quando o televisor não for utilizado por um longo período, retire o cabo de força da tomada da rede elétrica, a antena e as pilhas do controle remoto. Tal procedimento poderá evitar danos ao seu equipamento.



CONEXÕES

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ESPECIFICAÇÕES TÉCNICAS

INFORMAÇÕES SOBRE AS CONEXÕES

LEIA AS INFORMAÇÕES ABAIXO ANTES DE EFETUAR AS CONEXÕES

- Os diagramas das páginas 4, 5 e 6 estão dispostos separadamente, mostrando cada possibilidade de conexão.
- Os cabos A/V são coloridos para facilitar a conexão nas tomadas de áudio e vídeo;
 - o plugue amarelo é para a conexão de vídeo
 - o plugue vermelho é para a conexão do canal direito (RIGHT) de áudio.
 - o plugue branco é para a conexão do canal esquerdo (LEFT) de áudio (mono).
- Para realizar as conexões com sucesso, certifique-se de que cada passo realizado está correto antes de prosseguir para a próxima conexão.
- Certifique-se de desligar o cabo de força da tomada antes de efetuar as conexões.
- Todas as tomadas da parte traseira da sua TV estão devidamente identifacadas.

Plugue de entrada A/V



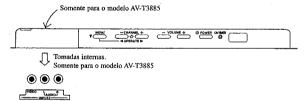
Conectores de RF



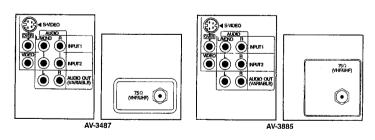


DIAGRAMAS DO PAINEL FRONTAL E TRASEIRO

Painel Frontal



Painel Traseiro



4 CONEXÕES

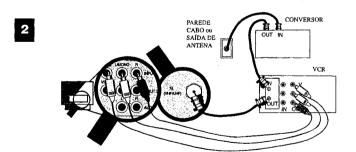
CONEXÕES DE TV A CABO E VCR

Existem três formas básicas para se ligar a antena ou cabo. Se você possui antena, ou um sistema de TV a cabo não é necessário a utilização de um conversor para sintonizar os canais. Utilize o **Diagrama 1.** Se você possui um sistema de TV a cabo e necessita de um conversor para sintonizar todos os canais ou alguns canais especiais (Paper View), utilize o **Diagrama 2.**

NOTA: Para obter o som estéreo a partir do VCR Hi-Fi, você deve conectá-lo à TV com os cabos de áudio e vídeo. Além disso, para obter excelente qualidade de imagem do VCR, utilize os cabos de áudio e vídeo. (Faça isso e você ficará muito satisfeito!)



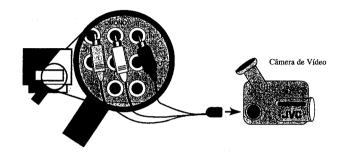
- 1) A saída do fio da antena ou do cabo vai da parede para para a entrada (IN) do VCR (entrada de RF).
- 2) A saída (OUT) de RF do VCR vai para a entrada de antena da TV (75Ω VHF/UHF).
- 3) O cabo de vídeo amarelo vai na saída VIDEO OUT do VCR e na entrada VIDEO da TV.
- 4) O cabo de áudio branco vai na saída AUDIO OUT L (esquerda) do VCR e na entrada INPUT 1 AUDIO L/(MONO) da TV
- 5) O cabo de áudio vermelho vai na saída AUDIO OUT R (direita) do VCR e na entrada INPUT 1 AUDIO R da TV
 Se o seu VCR é mono, ele possui apenas uma tomada de saída de áudio. Conecte-a na tomada INPUT 1 AUDIO L/MONO da TV



- 1) A saída do cabo vai da parede para a entrada IN do conversor.
- 2) A saída (OUT) do conversor vai para a entrada (IN) de RF do VCR.
- 3) A saída (OUT) de RF do VCR vai para a entrada de antena da TV (75Ω VHF/UHF).
- 4) O cabo de vídeo amarelo vai na saída VIDEO OUT do VCR e na entrada VIDEO da TV.
- 5) O cabo de áudio branco vai na saída AUDIO OUT L (esquerda) do VCR e na entrada INPUT 1 AUDIO L/(MONO) da TV
- 6) O cabo de áudio vermelho vai na saída AUDIO OUT R (direita) do VCR e na entrada INPUT 1 AUDIO R da TV D Se o seu VCR é mono ele possui apenas uma tomada de saída de áudio. Conecte-a na tomada INPUT 1 AUDIO L/MONO da TV.



CONEXÃO DE UMA CÂMERA DE VÍDEO



ATENÇÃO:

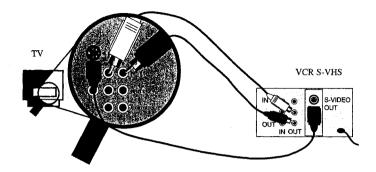
Se você possui o modelo AV-T3885, a câmera poderá ser ligada nas tomadas do painel frontal da TV. As tomadas frontais permitem major comodidade para ligar e desligar aparelhos que são utilzados exporadicamente. Quando estas tomadas estão sendo utilizadas as tomadas traseiras INPUT 2 ficam inoperantes.

Conecte a Câmera de Vídeo na sua TV.

- 1) O cabo de áudio branco vai da câmera para a entrada INPUT AUDIO L/MONO da TV.
- 2) O cabo de vídeo amarelo vai da câmera para a entrada INPUT VIDEO da TV.
- Se você possui uma câmera estéreo, ligue o cabo de áudio vermelho que sai da câmera na entrada INPUT AUDIO R da TV.
- 🗖 Para informações mais detalhadas, consulte o manual de instruções da câmera.



CONEXÃO DE UM APARELHO COM TOMADA S-VIDEO -

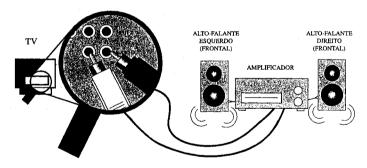


As conexões de áudio são iguais às das descritas na página 5. A conexão acima refere-se a um VCR Super VHS. O cabo especial é fornecido com o VCR.

1) O cabo S-VHS vai da saída S-VIDEO OUT do VCR para a entrada S-VIDEO da TV.

☐ Para informações mais detalhadas, consulte o manual de instruções do produto.

CONEXÃO COM UM AMPLIFICADOR EXTERNO

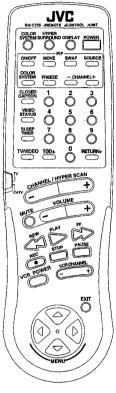


Desligue os falantes da TV (veja a página 10) e utilize a tecla VOLUME -/+ para controlar o nível de volume (veja a página 8).

- 1) O cabo de áudio branco vai na saída AUDIO OUT L (esquerda) da TV e na entrada INPUT do amplificador.
- 2) O cabo de áudio vermelho vai na saída AUDIO OUT R (direita) da TV e na entrada INPUT do amplificador.
- ☐ Para informações mais detalhadas, consulte o manual de instruções do amplificador.

PREPARAÇÃO INICIAL

CONTROLE REMOTO

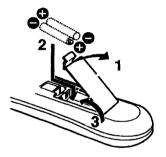


RM-C735

Para Substituir e Inserir as pilhas.

Utilize somente pilhas tipo AAA.

- Pressione a trava e levante a tampa do controle remoto.
- Insira duas pilhas tipo AAA respeitando a polaridade "+" e "-" indicada no controle remoto. Para evitar pequenos curto-circuitos no controle, insira primeiro o pólo negativo "-" da pilha.
- Feche a tampa. A tampa do controle estará totalmente fechada quando for ouvido um "click".



NOTAS:

- ☐ Uma vez colocadas as pilhas no controle remoto e confirmado que ele está funcionando, você poderá programá-lo para poder operar um VCR de outra marca ou ainda um receptor de satélite ou cabo. Veja as páginas 19 e 20.
- Se o tempo para a troca das pilhas for maior que um minuto, poderá ser necessário a reprogramação dos canais a cabo e do código do VCR. Veja a página 19.
- ☐ Se o controle remoto não responder corretamente aos comandos, substitua as pilhas. A vida útil de uma pilha é normalmente entre 6 meses e um ano, dependendo da intensidade de uso.
- 🗇 É recomendado a utilização de pilhas alcalinas.



PREPARAÇÃO INICIAL

UTILIZANDO O MENU

PARA LIGAR A TV

- Posicione a chave TV/ CATV para TV Posicione para CATV somente se a recepção de canais for por
- ☐ Pressione Power (①) do painel frontal da TV. O indicador luminoso ON TIMER se acende na cor vermelha.
- ☐ Para desligar a TV, pressione Power (♠) no controle remoto, O indicador ON TIMER permanece aceso.
- 🗇 Quando a TV não for utilizada por um longo período (férias por exemplo), desligue-a pela tecla Power do painel frontal. O indicador luminoso ON TIMER se apaga.
- ☐ Existem duas maneiras para ligar a TV guando ela é desligada pela tecla Power do controle remoto:
 - 1) Pressione a tecla Power do controle remoto.
 - 2) Pressione a tecla Channel /+ do painel frontal da TV.
- ☐ Quando a função ON TIMER está programada, o indicador luminoso ON TIMER se acende na cor verde. Quando a TV é desligada pela tecla Power do controle remoto e a função TIMER está ativa, o indicador luminoso permanece aceso na cor verde. Veja como programar o Timer na página 15.

• Para ligar a TV usando o controle remoto, ela deve estar no modo standby.

AJUSTE DO VOLUME

Pressione a tecla Volume no painel frontal ou no controle remoto.



Pressione a tecla Mute para silenciar o volume. Para retornar a audição normal, pressione novamente a tecla MUTE.

MUDANDO OS CANAIS

Acesso direto pelo teclado numérico.

Para canais de um dígito, pressione primeiro 0 e depois o número desejado; Para canais acima de 100, pressione a tecla +100 e depois os dois dígitos desejados.

Tecla Channel/Hyper Scan .

Esta tecla tem dois estágios. É possível sentir um ligeiro "click" entre os estágios

Para mudar os canais normalmente - tecla Channel -/+

Cada vez que a tecla Channel/Hyper Scan é pressionada levemente (primeiro estágio), o canal sequinte será exibido (-) abaixo ou (+) acima do atual. Mantendo-se esta tecla levemente pressionada (ainda no primeiro estágio) os canais são exibidos següencialmente.

Para mudar os canais rapidamente - tecla Hyper Scan -/+

Ao pressionar fortemente a tecla Channel/Hyper Scan (segundo estágio), os canais serão exibidos rapidamente. Um canal não será selecionado até que a tecla seia solta.

- Apenas os canais programados podem ser selecionados (consulte a página 11).
- A função HYPER SCAN está disponível apenas pelo controle remoto.

SÍMBOLOS UTILIZADOS NESTE GUIA:

- As setas para cima (▲) e para baixo (▼) permitem rolar verticalmente as listas de funções dos menus principais e dos itens dentro de cada menu principal.
- ◆ As setas para a esquerda (◆) e para a direita (>) permitem atenuar ou realçar o aiuste selecionado, ou ligar e desligar a função selecionada.



O desenho ao lado "pressionando a tecla" significa que você deve pressionar a tecla do controle remoto.

A seguir serão apresentadas informações importantes sobre as características da TV.

Os nomes das teclas são sempre escritos com letras maiúsculas (MENU) para não provocarem confusão com as funções do menu que possuem o mesmo nome.

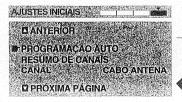
APRENDENDO AS TELAS DO MENU:

Para utilizar o menu, pressione uma das quatro teclas do Menu para ver na tela da sua TV JVC os aiustes possíveis. O item que aparece na cor amarela está selecionado para o ajuste.

Geralmente os ajustes começam com o menu de imagem. Entretanto, é importante que seiam iniciados conforme apresentado abaixo.

☐ Se você utilizar a tecla Menu do painel frontal da TV, as indicações do número do canal e da função TV/VIDEO aparecem antes da tela dos ajustes de imagem.

AJUSTES INICIAIS



AJUSTES DE IMAGEM



NOTA: Quando o sistema PAL-N está selecionado a funcão Closed Caption não

VAJUSTES DE IMAGEM

AJUS1	TES DE	IMAGE	M M		26.6129	
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MF	HUXIN	W L V	aliyA :			ŝ

AJUSTES DE SOM



AJUSTES GERAIS



AJUSTES INICIAIS

AJUSTES DE INICIAIS	
D ANTERIOR	
FALANTES TV LIGHT DE	SL
IDIOMA PORT ESP. INC	
CLOSED CAPTION	
☑ PRÓXIMA PÄGINA	

AJUSTES INICIAIS

AJUSTES INICIAIS

11

ALTO-FALANTES DA TV

Você pode ouvir o som dos alto-falantes da TV, ou se desejar, das caixas acústicas do equipamento estéreo. Neste caso, desligue os alto-falantes da TV.

- ▲ ▼ Para o item FALANTES TV no menu
- ◆ Para ligar ou desligar

FALANTES TY ... LIG. DESI-



Pressione Exit quando terminar

Nota: Antes de ligar novamente os falantes da TV, certifique-se de que o controle Volume está no mínimo.

IDIOMA

Escolha o idioma desejado (Português, Espanhol ou Inglês).

- ▲▼ Para localizar o item IDIOMA no menu
- ◆ Para ativar

IDIOMA : PORT. ESP. ING.

r Português → Espanhol → Inglês



Pressione Exit quando terminar

CLOSED CAPTION

Quando incluídos no programa, você pode ver as informações do Closed Caption ou texto.

- ▲ ▼ Para localizar CLOSED CAPTION no menu
- Para localizar e selecionar "captions" (legendas) ou canal de texto.

CAPTION CCL CC2 CC3 CC4 TEXTO (2 11) 12 (13) 14 TERMINAR

- ▲ ▼ Para FINALIZAR
- Para salvar os ajustes



Pressione Exit quando terminar

Informações sobre o Closed Caption

Se o programa de TV, videodisco ou fita videocassete que você estiver assistindo for identificada na apresentação ou na embalagem pelas palavras Cosed Caption, isto significa a presença de legendas codificadas no idioma original. A sua TV JCV tem um decodificador que permite ver essas legendas, o que pode facilitar bastante a compreensão dos diálogos nos programas sem legendas em português ou não dublados.



Para ver essas legendas, aperte repetidamente a tecla CLOSED CAPTION.

Observe as indicações abaixo:

CLOSED CAPTION - para ver as legendas.

TEXTO - para ver teletexto. **DESLIGADO** - para desligar o decodificador de legendas e teletexto.

Notas: • As legendas são normalmente encontradas em CC1 e o texto em T1.CC2, CC3, CC4, T2, T3, e T4 estão reservados para projetos futuros.

- A função COLSED CAPTION não pode ser acionada no sistema PAL-N.
- Se um boxe largo e preto aparecer na tela da TV, é provável que o modo texto esteja ativo. Pressione a tecla CLOSED CAPTION para desativar.
- As legendas do CLOSED CAPTION poderão não aparecer corretamente se a recepção do canal sintonizado não estiver boa.
- As legendas CLOSED CAPTION poderão apresentar problemas nas transmissões de TV a cabo ou nas fontes de vídeo com proteção contra cópias (copy guard).

PROGRAMAÇÃO AUTOMÁTICA

Durante o processo de sintonização automática, a TV procura e memoriza os canais ativos e com sinal forte de sua região. Os canais com sinal fraco e ruidosos naquele momento não são memorizados.

- ▲ ▼ Para selecionar PROGRAMAÇÃO AUTO no menu
- ◆ Para ATIVAR

PROGRAMANDO...

O processo de programação dura de 3 a 4 minutos, aproximadamente.

FIM DA PROGRAMAÇÃO

Notas: • O redutor de ruído não atua durante a programação automática.

 Você poderá incluir canais que não foram memorizados e deletar aqueles que você não deseja sintonizar pelas teclas CHANNEL. Veja o item Resumo de Canais, abaixo.

RESUMO DE CANAIS

Você pode adicionar ou deletar canais com a função Resumo de Canais. Além disso, você pode também censurar canais que julgar inapropriados, a partir do 1 ou todos os 181 canais.

▲ ▼ Para localizar RESUMO DE CANAIS

Para operar

ADICIONAR

Você pode sintonizar manualmente os canais fracos e ruidosos que não foram programados durante a programação automática. Por outro lado, se você deseja deletar canais com boa recepção, basta remover o "X", conforme apresentado na tela abaixo.



Utilize a tecla Channel -/+ para escolher o canal desejado

▲ ▼ Para movimentar o cursor pelas colunas

◆ Para icluir ou deletar



Pressione Exit quando terminar



AJUSTES INICIAIS

AJUSTES DE IMAGEM



NOTA:

O ajuste de

selecionado

fica na cor

amarela.

imagem

Nota: Os canais identificados com um "X" podem ser sintonizados pela tecla CHANNEL -/+.

Nota: Alguns sistemas de cabo quando sintonizam o canal 95, provocam interferências nas freqüências de rádio. Se você desejar, delete este canal removendo o "X" do número 95

Censurar Canais

- ▲ ▼ Para selecionar o item RESUMO DE CANAIS no menu
- ◆ Para operar
- ▲ ▼ Para selecionar o ícone do cadeado.





Pressione o dígito zero (0) para bloquear ou desbloquear o canal.

Utilize a tecla CHANNEL-/+ para selecionar outro canal que você deseja bloquear



Pressione Exit quando terminar

MENSAGEM DE CANAL CENSURADO:

A mensagem abaixo aparece quando um canal censurado é sintonizado:

NO TECLADO NUMERICO.

CANAL CENSURADO

"> PARA LIBERAR, DIGITE SENHA

Nº ____

Continuação ...

Digite a senha para liberar o canal. Se a senha estiver errada, a seguinte mensagem aparecerá:

SENHAINVÁLIDA!

Notas:

Existem duas seções no item Resumo de Canais.

Para mover a coluna para cima e para baixo (canal por canal), utilize a tecla Channel-/+.

Para mudar item a item (número do canal, adicionar ou censurar), utilize as teclas com as setas para cima e para baixo.

A função Tela Azul não funciona durante a operação do item Resumo de Canais.

MODO DE RECEPÇÃO

Para selecionar o sistema de recepção entre ANTENA ou CABO.

- Para selecionar o item CANAL no menu
- Para operar

CANAL CABO ANTENA



Pressione Exit quando terminar

Nota: Veja como ligar o sistema de cabo nas páginas 4 e 5.

MATIZ

O ajuste da MATIZ aparece somente nas transmissões de programas NTSC.

- ▲ ▼ Para selecionar o item MATIZ
- Para acentuar o verde
- Para acentuar o vermelho
- ▲ ▼ Para mover para o próximo item

COR

Ajuste para deixar as cores mais vivas ou para suavizá-las.

- ▲ ▼ Para selecionar o item COR
- Para deixar as cores mais vivas
- Para suavizar as cores
- ▲ ▼ Para mover para o próximo item

CONTRASTE

Permite variar o ajuste da faixa de contraste para preto e branco.

- ▲ ▼ Para selecionar o item CONTRASTE
- Para aumentar o contraste
- Para diminuir o contraste
- Para mover para o próximo item

BRILHO

Ajusta o grau de escuro e claro.

- ▲ ▼ Para selecionar o item BRILHO
- Para clarear a imagem
- Para escurecer a imagem
- ▲ ▼ Para mover para o próximo item

NITIDEZ

Ajusta o nível de detalhe da imagem.

- ▲ ▼ Para selecionar o item NITIDEZ
- Para acentuar a imagem
- Para suavizar a imagem.
- ▲ ▼ Para mover para o próximo item

FILTRO NOTCH

Atua na transição de uma imagem em cores vivas com um fundo claro, como noticiários e programas com legenda por exemplo.

- ▲ ▼ Para selecionar o item NOTCH
- ◆ Para ligar ou desligar

TELA AZUL

Introduz uma tela azul e elimina a tela com chuviscos provenientes de canais vazios ou de canais com sinal fraco.

- ▲ ▼ Para selecionar o item
 TELA AZUL
- ◆ Para ligar ou desligar

Nota: O recurso Tela Azul não funciona durante a Programação Automática de canais e Resumo de Canais.

STATUS DE VÍDEO

Para memorizar os ajustes de imagem de sua preferência.

- ▲ ▼ Para selecionar o item STATUS DE VIDEO
- ◆ Para operar



- ◆ Para selecionar o item MATIZ
- ▲ ▼ Para mover para o próximo item

Repita estes passos até aiustar todas as opções.

- ▲ ▼ Para memorizar o ajuste de sua preferencia, mover o cursor até "Memorizar Ajustes"
- ◆ Para memorizar o ajuste e sair

OBRIGADO!!

Nota: Para acessar estes ajustes, basta pressionar VIDEO STATUS no controle remoto até a mensagem "Personalizado" aparecer na tela.

AJUSTES DE SOM

NOTA:

O item selecionado fica na cor amarela.

GRAVES

- ▲ ▼ Para selecionar GRAVES
- Para acentuar os graves
- Para reduzir os graves
- ▲ ▼ Para mover para o próximo item

AGUDOS

- ▲ ▼ Para selecionar AGUDOS
- Para acentuar os agudos
- ◄ Para reduzir os agudos
- ▲ ▼ Para mover para o próximo item

BALANÇO

- ▲ ▼ Para selecionar BALANÇO
- Para aumentar o som do altofalante do lado direito
- Para aumentar o som do altofalante do lado esquerdo
- ▲ ▼ Para mover para o próximo item

MTS (Multi-Channel Television Sound)

A tecnologia MTS permite escolher entre os sistemas estéreo, mono ou SAP (segundo programa de áudio).

▲ ▼ Para selecionar MTS

MTS ESTÉREO SAP MONO NO AR

◆ Para selecionar o modo

(A indicação no ar com a seta indica que o sinal está sendo transmitido em estéreo ou SAP.)

Nota: Para obter a melhor reprodução do som, selecione a opção estéreo.

Nota: O SAP permitirá a você ouvir o som do idioma original, caso esteia disponível.

Nota: Selecione a opção mono para reduzir o excesso de ruído no som de um programa ou de um canal.

Algumas informações a respeito do áudio recebido pela TV

Você pode notar se a transmissão do programa é em estéreo pela indicação da seta ON AIR no menu MTS. Infelizmente, nem sempre isso é verdade, ou seja, algumas companhias de cabo transmitem programas mono com o sinal piloto em estéreo. Isto ocorre porque estas companhias não possuem equipamento mono. Se conectado a um sistema de cabo, a recepção do som fica a mercê da companhia de cabo — se eles transmitem o sinal em mono, você recebe o som mono indiferente se a programação original é estéreo.

Felizmente, a maioria das transmissões em estéreo pelas redes de televisão são pelo ar (via antena).

Se o seu TV está ligado a um sistema de cabo e você deseja mudar para ANTENA (página 12), tal mudança tornará possível receber as transmissões em estéreo.

AJUSTE DO RELÓGIO

O relógio deve estar funcionando para poder programar o timer.

- ▲ ▼ Para selecionar o item RELÓGIO/TIMER no menu
- ◆ Para operar

HORA 12:34 AM

ACIONAR RELÓGIO

- Para ajustar a hora (AM/PM)Para mover para os minutos
- Para aiustar os minutos
- Para finalizar o ajuste
- Para iniciar o funcionamento do relógio

OBRIGADO!!

Nota: Se a TV é desligada da tomada ou se faltar energia elétrica, o relógio deverá ser novamente ajustado para que as funções do timer possam funcionar.

TIMER ON/OFF

Com esta função é possível ligar e desligar a TV num horário prédeterminado. Utilize-a para despertar, para ligar a TV e assistir um determinado programa ou para simular a presença de pessoas na residência quando você estiver fora.

- ▲ ▼ Para selecionar o item
 TIMER ON/OFF no menu
- ◆ Para operar

HORA LIGA	12:00 AM
HORA DESLIGA	12:00 AM
CANAL	. 125
MODO SIMI	LES DIÁRIO
TIMER ON/OFF	SIM NÃO
TERMIN	AR

- ◆ Para aiustar a hora (AM/PM)
- Para mover para os minutos
- ◆ Para ajustar os minutos

ITENS GERAIS



- ▼ Para selecionar HORA LIGA e HORA DESI IGA
- ▼ Para mover para o item CANAL
- Para selecionar o canal
- ▼ Para selecionar o MODO
- Para selecionar SIMPLES ou DIÁRIO
- Para selecionar SIM ou NÃO
- Selecione SIM para ativar
 Slecione NÃO para desativar
- Para finalizar
- ◄ ► Para menorizar e sair do ajuste

OBRÎGADO!!

Nota: A função Timer só atua se o relógio estiver funcionando. Se faltar energia, a programação do timer poderá ser cancelada.

Nota: O timer não funciona para os canais censurados.

PARA PROGRAMAR A SENHA

Esta senha permite a você bloquear e desbloquear canais censurados. Digite três números e não os deixe à vista das pessoas de sua casa.

- ▲ ▼ Para selecionar o item PROGRAMAR SENHA no menu
- ◆ Para operar
 O ícone do cadeado aparece



Pressione o dígito zero (0)



SENHA 000 TERMINAR

- ▲ ▼ Para localizar o primeiro dígito da senha.
- Para escolher o número
- Para mover para o próximo dígito

Repita esta operação até ter digitado os três números da senha

- ▲ ▼ Para finalizar
- Para memorizar e sair do ajuste

OBRIGADO!!

Notas: Se você esquecer o código, repita a operação acima para programar outro.
Se a energia elétrica for interrompida, a senha deverá ser reprogramada.



FUNÇÕES DAS TECLAS

FUNÇÕES DAS TECLAS



NOTA:

A função Return+

quando os canais

Quando o teclado

canal, esta função

só funciona

são mudados

pelas teclas

CHANNEL -/+.

numérico é

utilizado para

sintonizar um

é cancelada

NOTAS:

Se o relógio, Timer ON/OFF e o Sleep Timer não estiverem ajustados, ao pressionar a tecla Display não aparecerá na tela as indicações destas funções

CLOSED CAPTION:

Quando o sistema de cores está ajustado para PAL-N, a função CLOSED CAPTION não

TECLA DISPLAY

Permite visualizar o canal sintonizado, hora e programação dos timers.



Tecla Display

07.	
AGORA	12:20 AM
SLEEPTIMER	DESL.
TIMER ON/OFF	DIÁRIO
LIGAR	12:00 PM
DESLIGAR	10:00 PM

- ☐ Canal ou entrada AV (Canal 07)
- ☐ Horário (12:20 PM)
- ☐ Tempo remanescente do Sleep Timer.
- ☐ Timer ON/OFF diário (ligar às 12:00 PM e desligar às 10:00 PM)
- Cada vez que a tecla DISPLAY é pressionada, as indicações mudam na seguinte ordem:



TECLA CLOSED CAPTION

Para ver as legendas ou texto é necessário que eles estejam incluídos no programa.



Tecla Closed Caption



Maiores informações na página 10.

TECLA VIDEO STATUS

Permite selecionar os ajustes conforme relacionado abaixo.

"NORMAL" ajusta a imagem conforme padrão de fábrica.

"PERSONALIZADO" ajustes memorizados por você, (Página 13.)

"THEATER" para assistir programas em um ambiente escuro.





TECLA SLEEP TIMER

A sua TV pode ser programada para se desligar num tempo determinado. A programação pode ser feita em intervalos de 15 minutos até 180 minutos.



Tecla SLEEP TIMER

- 0 15 30 45 60 75 90 105 120 135 150 165 180-

MENSAGEM ANTES DO DESLIGAMENTO:

20 segundos antes do desligamento a mensagem abaixo aparece na tela: Você tem 20 segundos para prorrogar este tempo, pressionando a tecla SLEEP TIMER e retardar o desligamento por mais 15 minutos.

BOA NOITE !! PARA AUMENTAR TEMPO. APERTE SLEEP TIMER.

TECLA COLOR SYSTEM

Seleciona automaticamente o sistema de cores. Porém, se as cores não aparecerem, selecione manualmente.



Tecla Color System

ightharpoonup AUTOightharpoonup PAL-Nightharpoonup NTSCightharpoonup

TECLA HYPER SURROUND

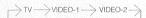
Cria uma profundidade no som, proporcionando um efeito tridimencional através dos alto-falantes frontais.

TECLA TV / VIDEO

Seleciona o modo de entrada.



TV/VIDEO



TECLA 100 +

Utilize-a para acessar os canais acima de 99. Para selecionar o canal 124:



100+



2 (dois)



4 (quatro)

TECLAS DO VCR

Este controle remoto poderá controlar as teclas do seu VCR JVC. Para os VCRs de outros fabricantes é necessário habilitar o VCR através de um código. Veja a página 19.

TECLAS MENU

As teclas do MENU permitem acessar todas as funções disponíveis do seu TV. Veja instruções mais detalhadas na página 9.

TECLA MUTE

Permite silenciar completamente o volume da TV. Pressione-a novamente para retomar o volume normal.

TECLA RETURN+

Existem duas possibilidades para a função Return:

Return+ — Permite memorizar um canal que você assiste com maior freqüência. Para assistí-lo, basta pressionar a tecla RETARN+.

Importante:

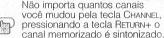
Este procedimento só funciona quando os canais são sintonizados pela tecla CHANNEL -/+ .

Escolha um canal utilizando as teclas Channel -/+



Mantenha pressionada a tecla RETURN+ por três segundos

CANAL DE RETORNO PROGRAMADO!



Nota: Para cancelar a função canal de retorno, mantenha a tecla RETURN+ pressionada por mais 3 segundos. Observe a indicação "Canal de Retorno Cancelado".

Return — Para retornar ao último canal assisitido.

Importante:

Este procedimento funciona tanto pela tecla CHANNEL quanto para o teclado numérico.



Pressione RETURN+

Nota: O canal de retorno não funciona para a função PIP.

TECLADO NUMÉRICO

*Utilize-o para mudar os canais.*Para sintonizar o canal 7 por exemplo:



0 (zero)



7 (sete)



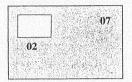
TECLAS FUNÇÕES PIP

PIP (Picture in Picture)

Possibilita ver dois programas diferentes ao mesmo tempo, seja dois programas de TV ou um de TV e outro de vídeo.



Pressione a tecla PIP On/OFF para ativar a função





Presisone a tecla PIP ON/OFF para desativar a função PIP.

Nota: A imagem do canal PIP e do canal principal poderão aparecer momentaneamente após o pressionamento da tecla PIP ON/OFF. Para deixar os canais PIP e principal aparentes, pressione 3 vezes a tecla DISPLAY.

Nota: O tamanho da tela PIP é 1/9 menor que a tela principal.

TECLAS CHANNEL -/+ do PIP

Para mudar os canais da tela PIP.



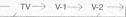
Pressione PIP CHANNEL -/+

TECLA SOURCE

Para selecionar a fonte da imagem PIP.



Pressione a tecla Source



Para ver as imagens das saídas V1 e V2 é necessário que sejam conectados equipamentos em suas respectivas tomadas. Veja as páginas 4 e 5.

 Você pode conectar um vídeocassete, videolaser ou câmera de vídeo às entradas INPUT 1 e INPUT 2.

TECLA FREEZE

Você pode congelar a imagem da tela grande e mandá-la para dentro da tela pequena ou congelar a imagem PIP.



FREEZE

Nota: Quando o PIP está desligado, pressionando a tecla FREZE a imagem da tela grande é congelada e instantaneamente capturada pela tela PIP (pequena).

Nota: Quando a tela PIP está selecionada e a tecla FREEZE é pressionada, a imagem fica paralisada.

TECLA SWAP

Permite trocar a imagem da tela pequena pela imagem da tela grande.



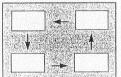
SWAP

TECLA MOVE

Você pode movimentar a tela PIP conforme indicado na ilustração abaixo.



Pressione a tecla Move



Nota: Cada vez que você pressiona a tecla Move, a tela PIP muda de posição dentro da tela principal.

TECLA COLOR SYSTEM (PIP)

Seleciona automaticamente o sistema de cores. Porém, se as cores não aparecerem, selecione manualmente.



Tecla Color System



PROGRAMANDO O CONTROLE REMOTO



AJUSTANDO OS CANAIS (CATV) E OS CÓDIGOS DE VCR

O controle remoto foi projetado para operar outras marcas de VCR's, sistema de TV a Cabo e receptores de satélite, conforme indicado na tabela abaixo. Se você seguiu as instruções descritas abaixo e conseguiu habilitar o seu sistema, desconsidere o texto da coluna direita.

PARA AJUSTAR CATV/RECEPTOR DE SATÉLITE 1) Aiuste a chave CATV/TV para CATV.

- Obtenha o código do seu produto conforme indicado na tabela abaixo.
- Aponte o controle para o aparelho desejado e pressione simultaneamente as teclas TV POWER e RETURN+, e depois solte-as.
- Utilize o teclado numérico para digitar o código de três dígitos. Em seguida, pressione a tecla RETURN+ (Se você não pressionar a tecla RETURN+ o ajuste não será realizado.)
- A tecla POWER, o teclado numérico e as teclas CHANNEL-/+ podem controlar o seu aparelho.

Se você realizou as instruções descritas no lado esquerdo ese todas as tentativas de códigos foram realizadas e o aparelho não respondeu aos comandos do controle remoto, você deverá tentar habilitar o controle conforme descrito abaixo:

FUNÇÃO BUSCA DE CÓDIGOS

- 1) Ajuste a chave CATV/TV para CATV.
- Aponte o controle para o aparelho desejado e pressione ao mesmo tempo as teclas TV POWER e RETURN+, e depois solte-as.
- Pressione a tecla TV/POWER e observe se o aparelho respondeu aos comandos do controle remoto.
- Quando ele responder, pressione a tecla RETURN+. Se não obtiver resposta na primeira tentativa, repita o item 3 até obter resultado positivo. (Se você não pressionar a tecla RETURN+, o ajuste não será realizado.)

NOTA

 Conforme o tipo de VCR, pode haver casos em que algurna ou nenhuma função possa ser operada com o controle remoto.

CÓDIGOS PARA TV A CABO E SATÉLITE

CONVERSOR	CÓDIGOS	CONVERSOR	CÓDIGOS	CONVERSOR	códigos
ABC	001 003 007 008 011 013 014	Oak	007 019	Tusa	015
	017	Panasonic	000 021 107	TV86	063
Allegro	153 315	Panther	637	Unika	022 153 207
Antronix	022 207	Paragon	000	United Artists	007
Archer	022 153 207	Philips	025 027 031 153	United Cable	003
Belcor	056	Pioneer	023 144 533	Universal	022 056 153 191 207
Cable Star	056	Popular Mechanics	400	Videoway	250
Cabletenna	022	Pulsar	000	Viewstar	027 063 258
Cableview	022	Radio Shack	015 315	Zenith	000 054
Century	153	RCA	021	Zentek	400
Citizen	153 315	Realistic	207		
Colour Voice	025 031	Recoton	400		
Comtronics	040	Regal	020 259	MISC AUDIO	CÓDIGOS
Contec	019	Regency	002		
Eastern	002	Rembrandt	011	Jerrold	459 520
Everquest	015 040	Runco	000	Scientific Atlanta	460
Focus	400	Samsung	040 144	Starcom	459
Garrard	153	Scientific Atlanta	006 008 017 477		
GC Electronics		Signal	015 040	SATÉLITE	CÓDIGOS
	015	Signature	011		
General Instrument		SL Marx	040	AlphaStar	772
	040 144	Sprucer	021	Echostar	775
	009 020 034 259	Starcom	003 015	HTS	775
	011	Stargate	015 040	Hughes Network	749
	007	Starguest	015	Systems	
	153 315	Sylvania	001	Jerrold	627
	003 011 012 014 015 476	Tandy	258	Gradiente	791
	027	Teleview	040	Panasonic	701
	000	Texscan	001	Primestar	627
	063 156	TFC	310	RCA	566
	618	Tocom	012 013	Sony	639
NSC	063 156	Toshiba	000	Toshiba	790

PARA AJUSTAR O CÓDIGO DO VCR:

- 1) Ajuste a chave CATV/TV para TV.
- Aponte o controle para o VCR e pressione simultaneamente as teclas TV POWER e RETURN+, e depois solte-as.
- Com o teclado numérico digite o código de três dígitos. Em seguida, pressione a tecla **RETURN+.**Se o VCR não respondeu aos comandos do controle remeter.
- Aponte o controle para o VCR e pressione simultaneamente as teclas TV POWER e RETURN+, e anás solte-as
- 2) Aponte o controle para o VCR e pressione repetidamente a tecla VCR POWER até que o VCR responda.
- Quando o VCR responder aos comandos, pressione a tecla RETURN+.



20 PROGRAMANDO O CONTROLE REMOTO

CORREÇÃO DE PROBLEMAS



CÓDIGOS DE VCRs

VCRs	cópigos	VCRs	CÓDIGOS	VCRs	CÓDIGOS
Admiral .	048	Lloyd	000	Salora	075
Adventura	000	Lloyd's	208	Samsung	045 051 053 240
Aiko	278	Logik	072	Sanky	039 048
Aiwa	000	LXI	037	Sansui	041 067 271
Akai	041 049 053 061 106	Magnavox	035 039 081 149	Sanyo	046 047 104 240
American High	035	Magnin	240	Scott	043 045 121 184 211
Asha	240	Marantz	035 081	Sears	212 035 037 042 046
Audiovox	037	Marta	037		047 054
Beaumark	240	Matsushita	035 162		066 104 105 067 008
Bell & Howell	104	MEI	035	Sharp	048 062
Broksonic	121 184 211 295 361	Memorex	000 035 037 039 046 047 048	Shintom	072
Calix	037		104 240	Shogun	051 240
Canon	035	MGA	043 061	Singer	072
Capehart	020	MGN Technology	240	Sony	032 033 034 035 253
Carver	081	Minolta	042 105	STS	042
CCE	072 278	Mitsubishi	043 061 067 075 173	Sunpak	253
Citizen	037 278	Motorola	035 048	Svlvania	000 035 043 081
Colt	072	MTC	000 240	Symphonic	000
Craig	037 047 072 240 271	Multitech	000 072	Tatung	041
Curtis Mathes	035 041 060	NAD	058	Teac	000 041
Cybernex	051 240	NEC	038 040 041 067 104	Technics	035 162
Daewoo	020 045 278	Nikko	037	Teknika	000 035 037
Daytron	020	Nikon	034 253	TMK	036 208 240
Dynatech	000	Noblex	240	Toshiba	043 045 066 212 366
Electrohome	037	Olympus	035	Totevision	037 240
Electrophonic	037	Optimus	037 048 058 104 162 432	Unitech	240
Emerex	032	Optonica	062	Vector	045
Emerson	000 002 036 037 043 061 068	Orion	295 479	Vector Research	038 040
Linoidon	088 121 184 208 209 211 212	Panasonic	035 077 162 225	Video Concepts	040 045 061
	278 294 295 361 479	Penney	035 037 038 040 042 054 240	Videosonic	240
Fisher	047 054 066 104	Pentax	042 065 105	Wards	000 035 042 047 048
Fuii	033 035	Philco	035		060 062 072 081 149
Funai	000	Philips	035 062 081		212 240
Garrard	000	Pilot	037	XR-1000	000 035 072
GE	035 060 065 202	Pioneer	058 067	Yamaha	038
Go Video	232	Portland	020	Zenith	033 034 039
GoldStar	037 038	Profitronic	240		
Gradiente	000	Protec	072	ŀ	
Grundia	195	Pulsar	039 051	Ĭ	
Harley Davidson	000	Quarter	046		
Harman/Kardon		Quartz	046		
Harwood	068 072	Quasar	035 077 162	ł	
Headquarter	046	Radio Shack	000 037	•	
HI-Q	047	Radix	037		
Hitachi	041 042 065 105 166	Randex	037		
Jensen	041	RCA	042 060 065 077 105 106 149		
JVC	067 008 041		202	i	
KEC	037 278	Realistic	000 035 037 046 047 048 062		
Kenwood	038 041 067		066 104	ł	
KLH	072	Rícoh	034 253		
Kodak	035 037	Runco	039	3	
8			1		
•	The Control of the Co				

PROBLEMAS	VERIFIQUE		
A TV não liga	Verifique se a tomada de força está desligada. Ligue-o em outra tomada, ou se for a uma régua de força, verifique se o fusível está queimado.		
Sem imagem ou som			
O controle remoto não funciona	 Verifique se as pilhas estão boas e se foram corretamente instaladas. Certifique-se de que não haja objetos obstruindo o caminho do sinal do controle remoto para o TV. Verifique a posição da chave TV/CATV — Ajuste para TV quando for assistir televisão. 		
Você não pode sintonizar determinado canal	 Talvez você esteja muito longe do televisor. A distância máxima recomendada é de 7 metros. Certifique-se de que os canais foram programados. Veja Resumo de Canais na página 11. Talvez o canal esteja censurado, selecione o canal através do teclado numérico. 		
A TV desligou	Talvez o Timer esteja programado, Ligue a TV e veja a página 15. Faltou energia elétrica ou alguém desligou a tomada. Ajuste o relógio. Veja a 15. Talvez o Sleep Timer esteja acionado. Veja a página 16.		
Relógio não funciona	Acabou a energia e o relógio não foi reajustado. Reajuste o relógio. Veja a página 15.		
O Timer ON fica piscando	O TV está com problema. Desligue-o da tomada de força e solicite auxílio do Serviço Autorizado.		
IMAGEM	VERIFIQUE		
Cores pobres	As cores foram ajustadas incorretamente. Veja a página 13. Os ajustes de imagem podem estar incorretos. Veja a página 16.		
Aparece linhas ou riscos na tela	Verifique se não há interferência de outros produtos ligados à mesma tomada, assim como computadores, outra TV ou VCR. Ligue os demais aparelhos em outra tomada.		
Manchas na imagem	 Aparelhos como aspirador, liquidificador e lâmpadas de néon causam este tipo de interferência. Remova a antena de posição para longe dos equipamentos que causam tal interferência ou substitua o fio da antena por um cabo coaxial, que é menos propenso a interferências. 		
Sombras na imagem	 Prédios e aeronaves podem refletir um segundo sinal original atrasado com relação ao original. Ajuste o posicionamento da antena. 		
lmagem com neve/ruído	 A antena pode estar com defeito, desconectada ou mal direcionada. Verifique as conexões de antena na página 4. Se estiver com problemas você deverá refazê-las. 		
Boxe preto cobre a tela	Pressione repetidamente a tecla CLOSED САРТІОN para desligar a função.		
SOM	VERIFIQUE		
SAP ou estéreo não podem ser ouvidos	 Verifique se o MTS está corretamente ajustado. Veja maiores detalhes na página 14, Modo MTS. 		
Sem som nos alto- falantes	Os falantes do TV podem estar desligados no menu. Veja a página 10.		
NÃO É PROBLEMA	NÃO SE PREOCUPE, ISTO É NORMAL		
Eletricidade estática	É normal você sentir a eletricidade estática ao tocar na tela do televisor.		
Estálos ocasionais no som	 É normal o TV emitir estes estalos quando é ligado e desligado. A não ser quando o som e imagem não estão normais, isto é normal. 		

ESPECIFICAÇÕES TÉCNICAS

Sistema de recepçãoFaixa de recepção	NTSC, PAL-N, PAL-M VHF 2 a 13, UHF 14 a 69
	Sub Mid, Mid, Super, Hyper e Ultra
Consumo	(181 channel frequency synthesizer system)
Cinescópio	
Caída da fudia	86.4cm medidos diagonalmente (AV-T3487)
Saida de audio	
	5 om v 10 om ovel v 0 (AV T0 407)
Terminal de antena	75 ohms (VHF/UHF) (conector tipo F)
Alimentação	AC120V-240V (calculado)
Terminais de entrade	AC90V-AC260V(faixa de operação)Vídeo: 1V(p-p), 75 ohms
Terriniais de entrada	Áudio:500mV(rms) (-4dBs) alta impedância
Saída de áudio variávelP	
	baixa impedância (400Hz quando modulado a 100%)
	86 cm x 76.5 cm x 60.3 cm (AV-T3885)
Peso	76.8 cm x 66.4 cm x 54.8 cm (AV-T3487) 69.2 kg (AV-T3885)
	E4.0 km (AV/T0407)
Acssórios	
	pilhas tipo AAA x 2

Projeto e especificações técnicas sujeitos a alterações sem aviso prévio.

SPECIFIC SERVICE INSTRUCTIONS

REPLACEMENT OF CHIP COMPONENT

■ CAUTIONS

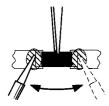
- 1. Avoid heating for more than 3 seconds.
- 2. Do not rub the electrodes and the resist parts of the pattern.
- 3. When removing a chip part, melt the solder adequately.
- 4. Do not reuse a chip part after removing it.

■ SOLDERING IRON

- 1. Use a high insulation soldering iron with a thin pointed end of it.
- 2. A 30w soldering iron is recommended for easily removing parts.

■ REPLACEMENT STEPS

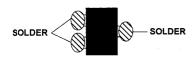
- 1. How to remove Chip parts
- Resistors, capacitors, etc
 - (1) As shown in the figure, push the part with tweezers and alternately melt the solder at each end.



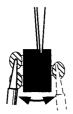
(2) Shift with tweezers and remove the chip part.



- ◆ Transistors, diodes, variable resistors, etc
 - (1) Apply extra solder to each lead.

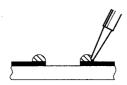


(2) As shown in the figure, push the part with tweezers and alternately melt the solder at each lead. Shift and remove the chip part.

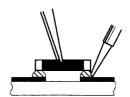


Note: After removing the part, remove remaining solder from the pattern.

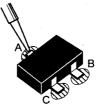
- 2. How to install Chip parts
- Resistors, capacitors, etc
 - (1) Apply solder to the pattern as indicated in the figure.



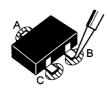
(2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.



- ♦ Transistors, diodes, variable resistors, etc
 - (1) Apply solder to the pattern as indicated in the figure.
 - (2) Grasp the chip part with tweezers and place it on the solder.
 - (3) First solder lead **A** as indicated in the figure.



(4) Then solder leads B and C.



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5

DISASSEMBLY PROCEDURE

REMOVING THE REAR COVER

- 1. Unplug the power plug.
- 2. As shown in Fig.2, remove the 11 screws marked (A).
- 3. Remove the rear cover toward you.

When reinstalling the rear cover, carefully push it inward after inserting the chassis into the rear cover groove.

REMOVING THE CHASSIS

- After removing the rear cover.
- Slightly raise the both sides of the chassis by hand and remove the 2 claws under the both sides of the chassis from the front cabinet.
- 2. Withdraw the chassis backward along the rail in the arrow direction marked (B) as shown in the Fig.2.

 (If necessary, take off the wire clamp, connectors etc.)

When conducting a check with power supplied, be sure to confirm that the CRT earth wire is connected to the CRT SOCKET PWB and the MAIN PWB.

REMOVING THE TERMINAL BOARD

- ●After removing the rear cover.
- 1. As shown in Fig.2, remove the **2** screws marked **C** .
- 2. As shown in Fig.1, after removing the claw marked ① in the direction of arrow mark.
- When you pull out the TERMINAL BOARD in the direction of arrow marked (E) as shown in Fig.1, it can be removed.
- 4. Thus the connector should be securely inserted when the TERMINAL BOARD is installed again.

REMOVING THE FRONT CONTROL PW BOARD

- ●After removing the rear cover and chassis.
- 1. As shown in Fig.2, remove the screw marked $\widehat{\mathbf{F}}$.
- 2. Remove the PWB protector.
- 3. Then remove the FRONT CONTROL PWB.

CHECKING THE MAIN PW BOARD

To check the back side of the MAIN PW Board.

- 1)Pull out the chassis. (Refer to REMOVING THE CHASSIS).
- 2)Erect the chassis vertically so that you can easily check the back side of the MAIN PW Board.

[CAUTION]

- When erecting the chassis, be careful so that there will be no contacting with other PWB.
- Before turning on power, make sure that the wire connector, CRT earth wire and other connectors properly connected.
- When repair service, connect degaussing coil to DEG connector on MAIN PW board.

WIRE CLAMPING AND CABLE TYING

- 1. Be sure to clamp the wire.
- Never remove the cable tie used for tying the wires together. Should it be inadvertently removed, be sure to tie the wires with a new cable tie.

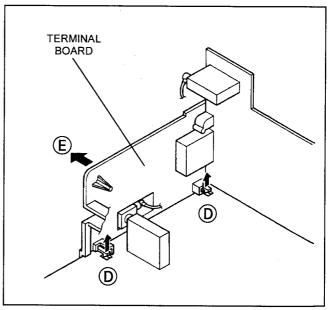


Fig.1

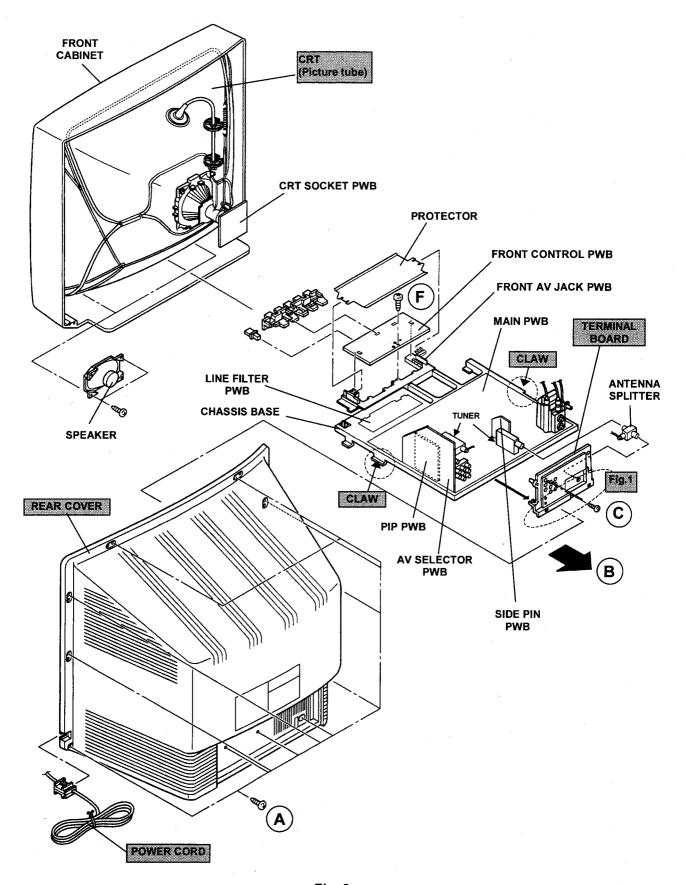


Fig. 2

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REMOVING THE CRT

- Replacement of the CRT should be performed by 2 or more persons.
- After removing the cover, chassis etc...
- Putting the CRT change table on soft cloth, the CRT change table should also be covered with such soft cloth (shown in Fig.3).
- 2. While keeping the surface of CRT down, mount the TV set on the CRT change table balanced will as shown in Fig.4.
- 3. Remove 4 nuts marked by arrows with a box type screw driver as shown in Fig.4.
- Since the cabinet will drop when nuts have been removed, be sure to support the cabinet with hands.
- After 4 nuts have been removed, put the cabinet slowly on cloth (At this time, be carefully so as not to damage the front surface of the cabinet) shown in Fig.5.
- The CRT should be assembled according to the opposite sequence of its dismounting steps.
- The CRT change table should preferably be smaller that the CRT surface, and its height be about 35cm.

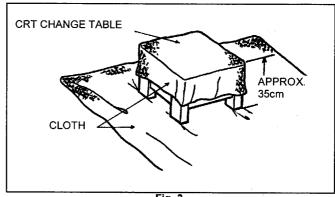


Fig. 3

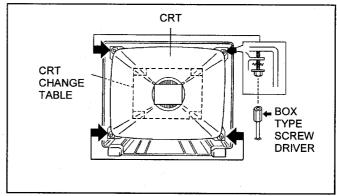


Fig. 4

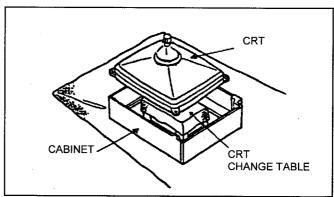


Fig. 5

COATING OF SILICON GREASE FOR ELECTRICAL INSULATION ON THE CRT ANODE CAP SECTION.

 Subsequent to replacement of the CRT and HV transformer or repair of the anode cap, etc. by dismounting them, be sure to coat silicon grease for electrical insulation as shown in Fig.6.
 Wipe around the anode button with clean and dry cloth. (Fig.6)
 Coat silicon grease on the section around the anode button. At this time, take care so that any silicon greases dose not stick to the anode button. (Fig.7)

★ Silicon grease product No. KS - 650N

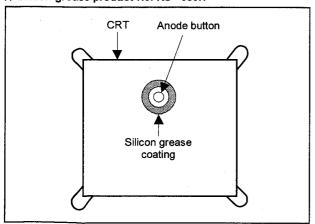


Fig. 6

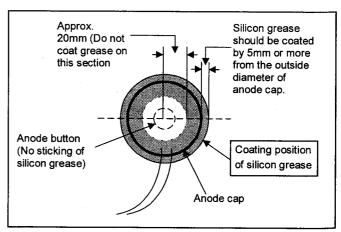


Fig. 7

REPLACEMENT OF MEMORY IC

1. Memory IC

This model use the memory IC.
The memory IC stores data for proper operation of video and deflection circuits.
When replacing, be sure to use an IC containing this (initial value) data.

2. Memory IC replacement procedure

PROCEDURE	SCREEN DISPLAY
(1) Power off Switch off the power and disconnect the power cord from the outlet.	
(2) Replace the memory IC. Be sure to use memory ICs written with the initial data values.	
(3) Power on	
Connect the power cord to the outlet and switch on the power.	
 (4) System constant check and setting	SERVICE MENU PICTURE SOUND THEATER OTHERS PIP 2 TUNER COMB LOW LIGHT HIGH LIGHT RF AFC 1 RF AFC 2 VCO(CW) I2C BUS CTRL SELECT BY A P EXIT BY OPERATE BY Fig. 1
	SYSTEM CONSTANT VIDEO : 2
(5) Receive channel setting Refer to the OPERATING INSTRUCTIONS (USER' S GUIDE) and set the receive channels (Channels Preset) as described.	PIP : YES CCD : YES HYPER SCAN : YES SURROUND : YES CHOICE : YES SELECT BY EXIT BY OPERATE BY EXIT
(6) User settings Check the user setting items according to Table 2. Where these do not agree, refer to the OPERATING INSTRUCTIONS and set the items as described.	Fig.2
(7) SERVICE MENU setting Verify the setting items of the SERVICE MENU, and reset where necessary(Fig.1). For setting, refer to the SERVISE ADJUSTMENT.	

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TABLE 1 (Settings of SYSTEM CONSTANT setting)

Setting item	Setting constant	Setting value
VIDEO	1 / 2	2
PIP 2 TUNER	YES / NO	YES
CCD	YES / NO	YES
HYPER SCAN	YES / NO	YES
SURROUND	YES / NO	YES
CHOISE	YES / NO	YES

TABLE 2 (User setting)

Setting item	Setting value	Setting item	Setting value
1. Use remote controller key	s	· ·	
POWER CHANNEL VOLUME TV/VIDEO CLOSED CAPTION HYPER SURROUND	ON CH-02 Proper sound volume TV OFF OFF	DISPLAY VIDEO STATUS SLEEP TIMER PIP SOURCE PIP POSITION	OFF STANDARD 00 CN-04 LOW-LEFT
2. Settings from MENU			
TINT COLOR PICTURE BRIGHT	CENTER (only NTSC) CENTER CENTER CENTER	TV SPEAKER LANGUAGE	ON PORT
DETAIL	CENTER	CHANNEL SUMMARY	Set optionally
NOTCH NOISE MUTE SET VIDEO STATUS	OFF ON ALL CENTER	TUNER MODE	AIR
BASS TREBLE BALANCE	CENTER CENTER CENTER		
SET CLOCK ON/OFF TIMER SET LOCK CODE	Unnecessary to set NO Unnecessary to set		

SERVICE ADJUSTMENTS

ADJUSTMENT PREPARATION

- 1. There are 2 ways of adjusting this model: One is with the REMOTE CONTROL UNIT and the other is the conventional method using adjustment parts and component.
- 2. Adjustment with the remote control unit is made on the basis of the initial setting values, however, the new setting values which adjust the screen to the optimum condition may differ from the initial settings.
- 3. Make sure that AC power is turned on correctly.
- 4. Turn on the power for the set and test equipment before use, and start the adjustment procedures after waiting at least 30 minutes.
- 5. Never touch any adjustment parts which are not specified in the list for this adjustment-variable resistors, transformers, condensers, etc.
- 6. Presetting before adjustment.

Unless otherwise specified in the adjustment instructions, preset the following functions with the remote control unit.

VIDEO STATUS	STANDARD
NOTCH	OFF
BASS, TREBLE, BALANCE	CENTER
HYPER SURROUND	OFF

ADJUSTMENT INSTRUMENTS AND FIXTURES

- 1. DC voltmeter(or digital voltmeter)
- 2. Oscilloscope
- 3. Signal generator (Pattern generator) [NTSC / PAL-M / PAL-N]
- 4. Remote control unit
- 5. TV audio multiplex signal generator
- 6. Frequency counter

ADJUSTMENT ITEMS

- ●B1 Power supply check
- ●IF VCO adjustment
- ●TV DET LEVEL adjustment
- ●RF AGC adjustment
- ●FOCUS adjustment
- DEFLECTION CIRCUIT adjustment [NTSC or PAL-M] [PAL-N]
- ●VIDEO / CHROMA adjustment

WHITE BALANCE (Low light) adjustment WHITE BALANCE (High light) adjustment SUB BRIGHT adjustment SUB CONTRAST adjustment PAL-M / PAL-N SUB COLOR adjustment NTSC COLOR / TINT adjustment

●PIP circuit adjustment

DISPLAY POSITION adjustment SUB CONTRAST adjustment SUB COLOR adjustment SUB TINT adjustment RF AGC adjustment

MTS circuit adjustment
 INPUT LEVEL adjustment
 STEREO VCO adjustment
 SAP VCO adjustment
 FILTER check
 SEPARATION adjustment

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BASIC OPERATION OF SERVICE MENU

1. Tool of SERVICE MENU operation.

Operate the SERVICE MENU with the REMOTE CONTROL UNIT.

2. SERVICE MENU ITEMS

With the SERVICE MENU, various settings can be made, and they are broadly classified in the following items of settings.

- PICTURE This sets the setting values (adjustment values) of the VIDEO/CHROMA and DEFLECTION circuits.
- SOUND This sets the setting values (adjustment values) of the AUDIO circuit.
- THEATER This is used when the THEATER MODE is adjusted.
- OTHERS This sets the setting values (adjustment values) of the OTHERS circuit.
- PIP 2TUNER · · · · · This sets the setting value (adjustment values) of the PICTURE-IN-PICTURE circuit.

[PIP is means as PICTURE IN PICTURE]

- COMB This sets the setting values (adjustment values) of the comb filter circuit.
- LOW LIGHT · · · · · This sets the setting values (adjustment values) of the WHITE BALANCE circuit.
- HIGH LIGHT · · · · · This sets the setting values (adjustment values) of the WHITE BALANCE circuit.
- RF AFC 1 This is used when the IF VCO is adjusted. [Do not adjust about this item]
- RF AFC 2 · · · · · This is used when the IF VCO is adjusted of the PIP. [Do not adjust about this item]
- VCO(CW) · · · · This is used when the IF VCO is adjusted. [Do not adjust about this item]
- I²C BUS CTRL····· This is used when ON/OFF of the I²C BUS CTRL is set. [Do not adjust about this item]

3. Basic Operations of the SERVICE MENU

(1) How to enter the SERVICE MENU.

Press the DISPLAY key and VIDEO STATUS key of the remote control unit simultaneously. The SERVICE MENU screen of Fig.1 will be displayed.

(2) Selection of SUB MENU screen

Press the UP / DOWN key of the MENU to select any of the following items. (The letters of the selected items are displayed in yellow.)

- PICTURE
- SOUND
- THEATER
- OTHERS
- PIP 2TUNER
- COMB
- LOW LIGHT
- HIGH LIGHT
- RF AFC 1 [Do not adjust]
- RF AFC2 [Do not adjust]
- VCO(CW) [Do not adjust]
- OPERATE BY • I2C BUS CTRL [Do not adjust] ◂▶

(3) Enter the any setting (adjustment) mode

PICTURE, SOUND, OTHERS and COMB mode

- 1) If select any of PICTURE, SOUND , OTHERS□and COMB items, and the LEFT / RIGHT key is pressed from SERVICE MENU (MAIN MENU), the SUB MENU screen will be displayed.
- 2) Then the UP / DOWN key is pressed, the PICTURE mode screen, the SOUND mode screen, the OTHERS mode screen, the COMB mode screen is displayed, and the PICTURE, SOUND, OTHERS or COMB setting can be performed.

THEATER, LOW LIGHT, HIGH LIGHT, RF AFC1, RF AFC 2, VCO(CW) and I²C BUS CTRL mode

- 1) If select any of THEATER / LOW LIGHT / HIGH LIGHT / RF AFC 1 / RF AFC 2 / VCO(CW) / I2C BUS CTRL items, and the LEFT / RIGHT key is pressed from SERVICE MENU (MAIN MENU), the screens will be displayed.
- 2) Then the settings or verifications can be performed.

PIP mode

- 1) If select the PIP item, and the LEFT / RIGHT key is pressed from SERVICE MENU (MAIN MENU), the screen will be displayed.
- 2) Then UP / DOWN key is pressed, the PIP mode screen is displayed, and the PIP setting can be performed.

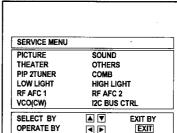


Fig.1

(4) Setting method

- UP / DOWN key of the MENU
 Select the item.
- 2) LEFT / RIGHT key of the MENU

Setting(adjust) the value of the items.

When the key is released the setting value will be stored (memorized).

3) EXIT key

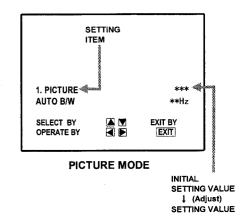
Returns to the previous screen.

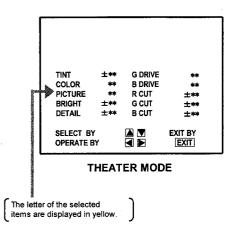
[NOTE] (PICTURE &COMB MODE ONLY)

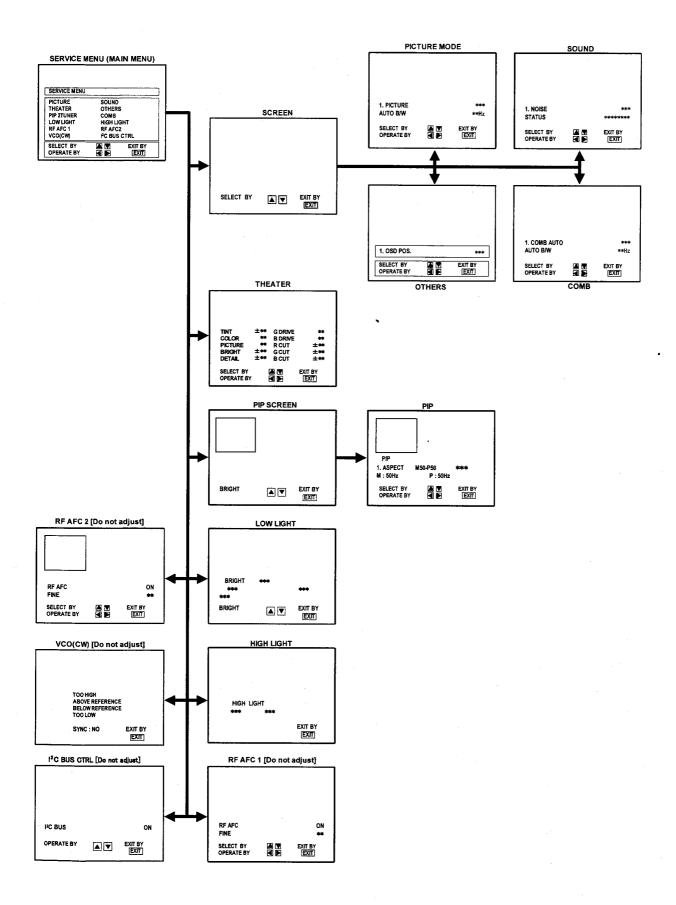
When the INTIAL SETTING VALUE is turned to yellow, you can adjust the values but you cannot adjust the values when it is turned to red (because the signal conditions, etc. are met).

(5) Releasing SERVICE MENU

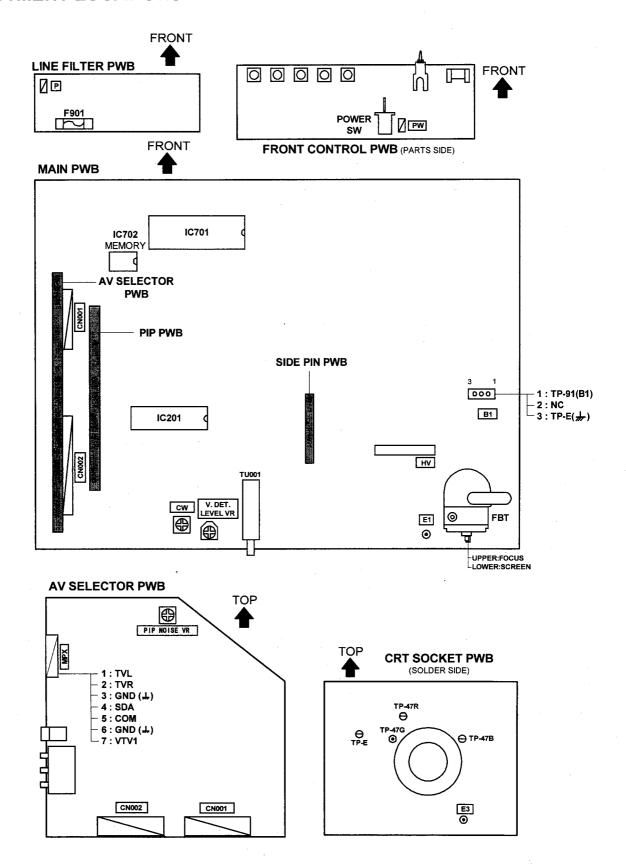
- After returning to the SERVICE MENU upon completion of the setting (adjustment) work, press the EXIT key again.
- ★ The settings for LOW LIGHT and HIGH LIGHT are described in the WHITE BALANCE page of ADJUSTMENT.







ADJUSTMENT LOCATIONS



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INITIAL SETTING VALUE OF SERVICE MENU

- 1. Adjustment of the SERVICE MENU is made on the basis of the initial setting values; however, the new setting values which set the screen in its optimum condition may differ from the initial setting.
- 2. Do not change the initial Setting Values of the Setting (Adjustment) items not listed In "ADJUSTMENT".

• PICTURE MODE

No.	Setting (Adjustment) item	Variable range	Initial setting value
1.	PICTURE	0~127	70
2.	BRIGHT	0~127	64
3.	COL. PAL-M	0~127	64
4.	COL. PAL-N	0~127	64
5.	COL. NTSC	0~127	64
6.	TINT	0~127	65
7.	TV DTL	0~63	31
8.	EXT CV PICT.	±25	±0
9.	EXT CV BRI.	±25	±0
10.	EXT CV COL.	±25	±0
11.	EXT CV TINT	±25	+3
12.	EXT CV DTL	0~63	29
13.	EXT SV PICT.	+25	±0
14.	EXT SV BRI.	+25	±0
15.	EXT SV COL.	+25	±0
16.	EXT SV TINT	+25	±3
17.	SV DTL.	0~63	26
18.	P/N KILL	0~1	1
19.	Y S CONT	0~31	31
20.	TV Y-DL PAL	0~7	0
21.	TV Y-DL NTSC	0~7	1
22.	EXT Y-DL	0~7	0
23.	WPL SW	0~1	0
24.	Y GAMMA	0~1	0
25.	P/N G P.	0~1	0
26.	COL. L SW	0~1	1
27.	COL. LMT	0~3	1
28.	PN C. ATT	0~3	1
29.	OFST. SW	0~1	0
30.	OFSET. B-Y	0~15	8
31.	OFSET, R-Y	0~15	8
32.	TV C-TOF PAL	0~1	1
33.	TV T FO PAL	0~3	1
34.	TV T Q PAL	0~3	0
35.	TV C-TOF NTSC	0~1	0
36.	TV T FO NTSC	0~3	0
37.	TV T Q NTSC	0~3	0
38.	EXT C-TOF PAL	0~1	1
39.	EXT T FO PAL	0~3	0
40.	EXT T Q PAL	0~3	0
41.	EXT C-TOF NTSC	0~1	1 :
42.	EXT T FO NTSC	0~3	0
43.	EXT T Q NTSC	0~3	0
44.	C-TRAP	0~3	1
45.	C-TR. FO	0~3	2
,		0~3	<u> </u>

No.	Setting (Adjustment) item	Variable range	Initial setting value
46.	C-TRAP Q	0~3	0
47.	FIX B/W	0~1	0
48.	APA P FO	0~3	2
49.	DC TRAN	0~7	4
50.	B. ST. SW	0~1	0
51.	B. ST. PO.	0~7	2
52.	ABL GAIN	0~7	4
53.	ABL PO.	0~7	2
54.	HALF T.	0~2	1
55.	DRV G SW	0~1	0
56.	NT. COMB	0~1	0
57.	COIN DET	0~3	3
58.	NOISE L	0~3	3
59.	VCD MODE	0~1	0
60.	V AGC SP	0~1	0
61.	V. POS. 50	0~7	3
62.	V. SIZE 50	0~127	74
63.	V. LIN. 50	0~31	21
64.	V. EDGE 50	0~15	6
65.	H. POS. 50	0~31	8
66.	H. BLK. 50	0~7	0
67.	H. SIZE 50	0~63	45
68.	EW PIN 50	0~63	15
69.	TRAPEZ 50	0~63	24
70.	V S CR 50	0~31	0
71.	V POS. 60	0~7	0
72.	V SIZE 60	0~127	72
73.	V LIN. 60	0~31	21
74.	V EDGE 60	0~15	7
75.	H POS. 60	0~31	11
76.	H BLK. 60	0~7	0
77.	H SIZE 60	0~63	44
78.	EW PIN 60	0~63	15
79.	TRAPEZ 60	0~63	30
80.	V S CR 60	0~31	0
81.	AGC-MAIN	0~255	160

SOUND MODE

No.	Setting (Adjustment) item	Variable range	Initial setting value
1.	NOISE	0~1	1
2.	IN LEVEL	0~63	15
3.	FH MON.	0~1	0
4.	ST VCO	0~63	25
5.	PILOT	0~1	. 0
6.	FILTER	0~63	30
7.	LOW SEP.	0~63	22
8.	HI SEP.	0~63	23
9.	5FH MON.	0~1	0
10.	SAP VCO	0~63	26
11.	IN GAIN	0~1	0
12.	FIL. OFF	0~10	0

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• THEATER MODE

Setting (Adjustment) item	Variable range	Initial setting value
TINT	±20	±00
COLOR	±20	-3
PICTURE	±20	-20
BRIGHT	±20	±00
DETAIL	±15	±00
G DRIVE	-99~+50	-22
B DRIVE	-99~+50	-54
R CUT. (R CUTOFF)	±10	±00
G CUT. (G CUTOFF)	±10	±00
B CUT. (B CUTOFF)	±10	±00

• OTHERS MODE

No.	Setting (Adjustment) item	Variable range	Initial setting value
1.	OSD POS	0~31	6
2.	LOCK DET	0~1	0
3.	SD SEL	0~2	0
4.	H CK SW	0~1	0
5.	PIP LAST MEMO	0~1	0
6.	PAL C-TOF SW	0~1	0

• COMB MODE

No.	Setting (Adjustment) item	Variable range	Initial setting value
1.	COMB AUTO	0~1	1
2.	TV SW	0~7	5
3.	VENH	0~7	3
4.	CBPF	0~7	1
5.	KILLER	0~1	0
6.	1LINEPOT	0~1	0
7.	CORING	0~1	0

• LOW LIGHT MODE

Setting (Adjustment) item	Variable range	Initial setting value
R CUTOFF	0 ~ 255	20
G CUTOFF	0 ~ 255	20
B CUTOFF	0 ~ 255	20

• HIGH LIGHT MODE

Setting (Adjustment) item	Variable range	Initial setting value
G DRIVE	0 ~ 255	128
B DRIVE	0 ~ 255	128

• RF AFC 1 MODE

Setting (Adjustment) item	Variable range	Initial setting value
RF AFC 1	ON/OFF	ON
FINE	-77 ~ +77	±** (Do not adj.)

• RF AFC 2 MODE

Setting (Adjustment) item	Variable range	Initial setting value	
RF AFC 2	ON / OFF	ON	
FINE	-77 ∼ +77	±** (Do not adj.)	

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• I2C BUS CTRL MODE

Setting (Adjustment) item	Variable range	Initial setting value
I ² C BUS	ON/OFF	ON (Fixed)

PIP MODE

	PIP MODE						
No.	Setting (Adjustment) item	Variable range	Initial setting value				
1.	ASPECT M50-P50	0~31	22				
2.	V POS. M50-P50	0~127	24				
3.	LOWER POS. M50-P50	0~127	71				
4.	H POS M50-P50	0~127	42				
5.	RIGHT POS M50-P50	0~127	73				
6.	ASPECT M50-P60	0~31	25				
7.	V POS. M50-P60	0~127	24				
8.	LOWER POS. M50-P60	0~127	77				
9.	H POS. M50-P60	0~127	48				
10.	RIGHT POS. M50-P60	0~127	89				
11.	ASPECT M60-P50	0~31	25				
12.	V POS. M60-P50	0~127	20				
13.	LOWER POS. M60-P50	0~127	64				
14.	H POS. M60-P50	0~127	45				
15.	RIGHT POS. M60-P50	0~127	91				
16.	ASPECT M60-P60	0~31	22				
17.	V POS. M60-P60	0~127	21				
18.	LOWER POS. M60-P60	0~127	59				
19.	H POS. M60-P60	0~127	41				
20.	RIGHT POS. M60-P60	0~127 ⁻	80				
21.	V AREA P50	0~3	2				
22.	H AREA P50	0~3	3				
23.	CLAMP POS. P50	0~3	1				
24.	FRAME P50	0~3	3				
25.	V AREA P60	0~3	2				
26.	H AREA P60	0~3	2				
27.	CLAMP POS. P60	0~3	1				
28.	FRAME P60	0~3	3				
29.	PICTURE	0~127	0				
30.	BRIGHT	0~127	0				
31.	COLOR	0~127	0				
32.	DETAIL	0~63	15				
33.	R CUTOFF	0~255	0				
34.	G CUTOFF	0~255	о о				
35.	B CUTOFF	0~255	0				
36.	G DRIVE	0~255	0				
37.	B DRIVE	0~255	0				
38.	Y-DL PAL	0~7	0				
39.	Y-DL NTSC	0~7	0				
40.	Y/C DELAY PAL	0~7	4 .				

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No.	Setting (Adjustment) item	Variable range	Initial setting value
41.	Y/C DELAY NTSC	0~7	4
42.	P/N KILL	0~1	0
43.	Y S CONT	0~31	31
44.	WPL SW	0~1	0
45.	Y GAMMA	0~1	0
46.	P/N G P.	0~1	0
47.	TOF F0	0~3	0
48.	TOF Q	0~3	0
49.	C-TRAP	0~1	0
50.	C-TRAP F0	0~3	2
51.	C-TRAP Q	0~3	0
52.	APA P. F0	0~3	1
53.	DC TRAN.	0~7	4
54.	B. ST. SW	0~1	0
55.	B. ST. P0.	0~7	0
56.	DRV G SW	0~1	0
57.	VCD MODE	0~1	0 ·
58.	H PHASE P50	0~31	7
59.	V PHASE P50	0~7	0
60.	H PHASE P60	0~31	6
61.	V PHASE P60	0~7	0
62.	RGB CONT.	0~255	128
63.	CONT2	0~63	32
64.	TINT	0~127	62
65.	COLOR2	0~63	32

ADJUSTMENTS

B1 POWER SUPPLY

Item	Measuring instrument	Test point	Adjustment item	Description
Check of B1	Signal	B1 Connector		Input a black and white signal (color off).
Power supply	generator DC Voltmeter	1 pin (TP-91) B1 connector 3 pin (TP-E) (洲)		 Connect the DC voltmeter to B1 connector 1 pin (TP-91) and TP-E() (B1 connector 3 pin). Confirm that the voltage is DC136.5V±2.5V.

ADJUSTMENT OF IF VCO

Item	Measuring instrument	Test point	Adjustment item	Description
IF VCO adjustment	Oscilloscope		CW TRANSF. [MAIN PWB]	It must not adjust without signal. Receive a NTSC broadcast (use channel without offset frequency).
	TOO HIGH ABOVE REFE BELOW REFE	•	YELLOW	2. Select VCO(CW) from SERVICE MENU. 3. Turn the CW transf. until the colour of the characters [TOC HIGH] displays on the screen changes yellow. At that time confirm the display that [SYNC:YES].
	SYNC : YES EXIT BY			 Then turn the CW transf counter-clockwise until the colour of the characters [BELOW REFERENCE] changes yellow, and again confirm the display [SYNC:YES]. Again turn the CW transf. to clockwise until the colour of the characters [ABOVE REFERENCE] changes yellow.
	Careful			6. Push EXIT key to turn to the SERVICE MENU.

ADJUSTMENT OF TV DET LEVEL

Item	Measuring instrument	Test point	Adjustment item	Description
TV DET. LEVEL Adjustment	Oscilloscope Signal generator	MPX connector 7 pin VTV1 MPX connector 6 pin GND (#/) [AV SELECTOR PWB]	VIDEO DET VR [MAIN PWB]	1. Input a color bar signal which includes the 100% white part. 2. Connect the oscilloscope to 7 pin of MPX connector and 6 pin (分). 3. Adjust the VIDĘO DET VR as the level from sync to 100% WHITE become 1.00±0.04V(peak to peak).
1.0)Vp-p	100% White		

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ADJUSTMENT OF RF AGC

Item	Measuring instrument	Test point	Adjustment item	Description
RF AGC adjustment			No.81 AGC MAIN	 Receive a broadcast. Select "No.81 AGC MAIN" of the PICTURE mode in SERVICE MENU. Press the MUTE key and turn off color. With the MENU LEFT key, get noise in the screen picture. (0 side of setting value) Press the MENU RIGHT key to up the setting value and stop when noise disappears on the picture. Change to other channels and make sure that there is no irregularity. Press the MUTE key to exit adjustment mode.

ADJUSTMENT OF FOCUS

ltem	Measuring instrument	Test point	Adjustment item	Description
FOCUS adjustment	Signal generator		FOCUS VR [In FBT]	 Input a crosshatch signal. While looking at the screen, adjust the FOCUS VR to make the vertical and horizontal lines will be clear and in fine detail. Make sure that the picture is in focus even when the screen gets darkened.

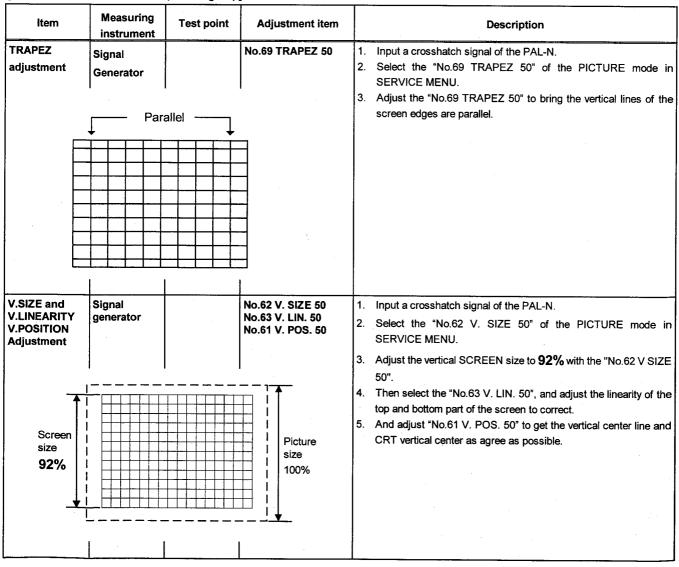
ADJUSTMENT OF DEFLECTION CIRCUIT

[NTSC or PAL-M SIGNAL ADJUSTMENT (60Hz signal)]

Item	Measuring instrument	Test point	Adjustment item	Description
TRAPEZ adjustment	Signal Generator Remote control unit	rallel	No.79 TRAPEZ 60	 Input a crosshatch signal of the NTSC or PAL-M. Select the "No.79 TRAPEZ 60" of the PICTURE mode in SERVICE MENU. Adjust the "No.79 TRAPEZ 60" to bring the vertical lines of the screen edges are parallel.
V.SIZE and V.LINEARITY V.POSITION Adjustment	Signal generator Remote control unit		No.72 V. SIZE 60 No.73 V. LIN. 60 No.71 V. POS. 60	Input a crosshatch signal of the NTSC or PAL-M. Select the "No.72 V. SIZE 60" of the PICTURE mode in SERVICE MENU. Adjust the vertical SCREEN size to 92% with the "No.72 V SIZE 60".
Screen size 92%			Picture size 100%	 4. Then select the "No.73 V. LIN. 60", and adjust the linearity of the top and bottom part of the screen to correct. 5. And then confirm the "No.71 V. POS. 60" value is 0.
H. POSITION H. SIZE adjustment	Signal Generator Remote control unit		No.75 H. POS. 60 No.77 H. SIZE 60	 Input a crosshatch circle signal of the NTSC or PAL-M. Select the "No.75 H. POS. 60" of the PICTURE mode in SERVICE MENU. Adjust the "No.75 H. POS. 60" to make the A=B as shown in figure. And then, adjust the "No.77 H. SIZE 60" to make the horizontal size to 92% of the picture size as shown in figure below. As required repeat above steps 2 and 4.
A		→ B	Scree size 92 Picture size 10	

Item	Measuring instrument	Test point	Adjustment item	Description
EW PIN CORRECT V. LINEARITY adjustment	Signal generator Remote control unit Stra	sight	No.78 EW PIN 60 No.74 V. EDGE 60 No.80 V S CR 60	 Input the crosshatch signal of the NTSC or PAL-M. Select the "No.78 EW PIN 60" of the PICTURE mode in SERVICE MENU. Adjust the "No.78 EW PIN 60" to make the second vertical lines at the left and right edges almost straight. ★ if the left and right edges does not get almost straight, select pin instead of barrel. If the linearity is too bad, select "No.74 V. EDGE 60", "No.80 V S CR 60" to adjust to get exact square of crosshatch pattern.
	1			

[PAL-N SIGNAL ADJUSTMENT (50Hz signal)]



Item	Measuring instrument	Test point	Adjustment item		Description
H. POSITION H. SIZE adjustment	Signal generator		No.65 H. POS. 50 No.67 H. SIZE 50		Select the "No.65 H. POS. 50" of the PICTURE mode in SERVICE MENU.
					Adjust the "No.65 H. POS. 50" to make the A=B as shown in figure. And then, adjust the "No.67 H. SIZE 50" to make the horizontal
				-	size to 92% of the picture size as shown in figure.
→	A —	→	B ←	5.	As required above steps 2 and 4.
_					
	I Scre	 e size 92%	1		
			• · · · · · · · · · · · · · · · · · · ·		
	Picture	e size 100%			
		5 5126 100 /0	.		
EW PIN CORRECT V. LINEARITY	Signal generator	-	No.68 EW PIN 50 No.64 V. EDGE 50 No.70 V S CR 50	1.	Input the crosshatch signal of the PAL-N. Select the "No.68 EW PIN 50" of the PICTURE mode in SERVICE MENU.
adjustment	Remote control unit			3.	Adjust the "No.68 EW PIN 50" to make the second vertical lines at the left and right edges almost straight.
				*	if the left and right edges does not get almost straight, select pin instead of barrel.
	Str	aight	3	4.	If the linearity is too bad, select "No.64 V. EDGE 50", "No.70 V S CR 50" to adjust to get exact square of crosshatch pattern.

ADJUSTMENT OF VIDEO / CHROMA CIRCUIT

Item	Measuring instrument	Test point	Adjustment item	Description	
WHITE Signal BRIGHT BALANCE generator (Low Light) Remote adjustment control unit Past point Adjusting Past point Adjusting Past point Adjusting Past point Adjusting Past point Past point Adjusting Past point P		R CUTOFF G CUTOFF B CUTOFF SCREEN VR [In FBT]	 Input a black and white signal (color off). Select the LOW LIGHT mode from the SERVICE MENU. Confirm the Initial setting value of "BRIGHT", "R CUTOFF", CUTOFF" and "B CUTOFF". Display one horizontal line by pressing the ①key of the remontrol unit. Turn the SCREEN VR all the way to the left. Turn the SCREEN VR gradually to the clockwise until either of the red, blue or green colors faintly visible. Use 4~9 keys of the remote control unit and adjust the other colours to where the single horizontal line appears white. Turn the SCREEN VR until the single horizontal line glows fair 9. Press the 2 key to return to the regular screen. Check the PIP brightness and adjust it by the screen VR if not optimum. 		
WHITE BALANCE (High Light) adjustment	Signal generator Remote control unit	HT] MODE	G DRIVE B DRIVE	 Input a black and white signal (color off). Select the HIGH LIGHT mode in the SERVICE MENU. Confirm the initial setting value of "G DRIVE" and "B DRIVE". Adjust the screen color to white with the 5, 6, 8 and 9 keys of the remote control unit. Not to adjust the R drive. 	
	G DRIVE HIGH	B DR\\ H LIGHT ₩ ** *** EXIT E	3Y	Remote Control Unit ①key : H.LINE ON ②key : H.LINE OFF ③key : EXIT ⑤key : G DRIVE ▲ ⑥key : B DRIVE ▲ ⑧key : G DRIVE ▼ ③key : B DRIVE ▼	

Item	Measuring instrument	Test point	Adjustment item	Description
SUB BRIGHT adjustment	Remote control unit		No.2 BRIGHT	Receive any broadcast. Select "No.2 BRIGHT" of the PICTURE mode in SERVICE MENU. Confirm the initial setting value of the "No.2 BRIGHT". If the brightness is not the best with the initial setting value, make fine adjustment of the "No.2 BRIGHT" until you get the optimum brightness.
SUB CONTRAST adjustment	Remote control unit		No.1 PICTURE	1. Receive any broadcast. 2. Select "No.1 PICTURE" of the PICTURE mode in SERVICE MENU. 3. Confirm the initial setting value of the "No.1 PICTURE". 4. If the contrast is not the best with the initial setting value, make fine adjustment of the "No.1 PICTURE" until you get the optimum contrast.
PAL-M PAL-N SUB COLOR adjustment	Remote control unit		No.3 COL. PAL-M	1. Receive any PAL-M broadcast. 2. Select "No.3 COL.PAL-M" of the PICTURE mode in SERVICE MENU. 3. Confirm the initial setting value of the "No.3 COL.PAL-M". 4. If the color is not the best with the initial setting value, make fine adjustment until you get the best color.
			No.4 COL. PAL-N	1. Receive any PAL-N broadcast. 2. Select "No.4 COL.PAL-N" of the PICTURE mode in SERVICE MENU. 3. Confirm the initial setting value of the "No.4 COL.PAL-N". 4. If the color is not the best with the initial setting value, make fine adjustment until you get the best color.
NTSC COLOR TINT adjustment	Remote control unit		No. 5 COL. NTSC	1. Receive any NTSC broadcast. 2. Select "No. 5 COL. NTSC" of the PICTURE mode in SERVICE MENU. 3. Confirm the initial setting value on the "No. 5 COL. NTSC". 4. If the this in not the best with the initial setting value, make fine adjustment until you get the best color.
			No. 6 TINT	 Receive any NTSC broadcast. Select "No. 6 TINT" of the PICTURE mode in SERVECE MENU. Confirm the initial setting value of the "No. 6 TINT". If the tint is not the best with the initial setting value, make fine adjustment until you get the best tint.

ADJUSTMENT OF PIP CIRCUIT

Item	Measuring instrument	Test point	Adjustment item				Descrip	tion		
PIP DISPLAY POSITION adjustment	Signal generator		No.2 V POSITION	screen as shown in the table below. 2. Select "No.2 V POSITION" of the PIP mode in S MENU. 3. Confirm the initial setting value of the "No.2 V POSITION" so that the position of screen edge of upper will be at X1 as shown in the table. 5. Adjust the corresponding modes of "No.3, No.4, No.5" same steps as 2 ~ 4 above. 6. Then change the input signal combination of the MAIN screen as shown in the table below, and adjust same s ~5.				PIP mode in SER 'No.2 V POSITION at the position of the shown in the table in o.3, No.4, No.5" we tion of the MAIN ar	RVICE I". ne PIF below ith the	
			No.12 V POSITION M60-P50			STEP	MAIN SCREEN		PIP SCREEN	
			No.13 LOWER POS. M60-P50 No.14 H POSITION			1	PAL-N [50Hz]		PAL-N [50Hz]	
			M60-P50 No.15 RIGHT POS. M60-P50			2	PAL-N [50Hz]		NTSC/PAL-M [60Hz]	
			No.17 V POSITION M60-P60			3	NTSC/PAL-I [60Hz]	И	PAL-M [50Hz]	
			No.18 LOWER POS. M60-P60 No.19 H POSITION M60-P60			4	NTSC/PAL-! [60Hz]	vi	NTSC/PAL-M [60Hz]	
	PIP scre	en —	M60-P60 ↓			F-173-04		PIP S	SETING POSITION	٧
	,		X1						Approx. (mm)	
					No No No. No.	.7 12 17	UPPER POSITION (X1)		40	
					No No No. No.	.8 13 17	LOWER POSITION (X2)		40	
	•		X2 X2 Y2		No No No. No.	.9 14 19	H POSITION (Y1)		50	
			12		No. No. No.	10 15	RIGHT POSITION (Y2)		50	

Item	Measuring instrument	Test point	Adjustment item	Description
PIP SUB CONTRAST adjustment			No.63 CONT2	 Receive a broadcast to both MAIN and PIP screen. Select "No.63 CONT2" of the PIP mode in the SERVICE MENU. Confirm the initial setting value of the "No.63 CONT2". If the contrast of the PIP screen is not the best with initial setting value, and too difficult during MAIN screen contrast, make fine adjustment of the "No.63 CONT2" until getting the optimum contrast.
PIP SUB COLOR adjustment			No.65 COLOR2	 Receive a broadcast to both MAIN and PIP screen. Select "No.65 COLOR2" of the PIP mode in the SERVICE MENU. Confirm the initial setting value of the "No.65 COLOR2". If the color of the PIP screen is not the best with initial setting value, and too difficult during MAIN screen color, make fine adjustment of the "No.65 COLOR2" until getting the optimum color.
PIP SUB TINT adjustment			No.64 TINT	 Receive a broadcast to both MAIN and PIP screen. Select "No.64 TINT" of the PIP mode in the SERVICE MENU. Confirm the initial setting value of the "No.64 TINT". If the tint of the PIP screen is not the best with the initial setting value, and too difficult during the MAIN screen tint, make fine adjustment of the "No.64 TINT" until getting the optimum tint.
PIP RF AGC Adjustment			PIP NOISE VR [AV SELECTOR PWB]	Receive a broadcast to both MAIN and PIP screen. Turn the PIP NOISE VR to get noise on the picture. Then turn the PIP NOISE VR counter direction, and stop where noise disappears on the picture.

ADJUSTMENT OF MTS CIRCUIT

ltem	Measuring instrument	Test point	Adjustment part	Description
MTS INPUT LEVEL check			No.2 IN LEVEL	Select the "No.2 IN LEVEL" of the SOUND mode in SERVICE MENU. Verify that the "No.2 IN LEVEL" is set at its initial setting value.
MTS STEREO VCO adjustment	Signal generator Frequency counter	MPX Connector 2 pin TVR [AV SELECTOR PWB]	No.3 FH MON. No.4 ST. VCO	 Receive a RF signal (non modulated sound signal) from the antenna terminal. Select the "No.3 FH MON." of SOUND mode in SERVICE MENU, change the setting value from 0 to 1. Connect the frequency connector to pin 2 of MPX connector. Select the "No.4 ST. VCO". Confirm the initial setting value of the "No.4 ST. VCO". Adjust the "No.4 ST. VCO" so that the frequency counter will display 15.73kHz±0.1kHz. Select the "No.3 FH MON." of the SOUND mode, and reset the setting value from 1 to 0.
MTS SAP VCO adjustment	Signal generator Frequency counter	MPX Connector 4 pin SDA 3 pin GND 2 pin TVR [AV SELECTOR PWB]	No.3 FH MON. No.10 SAP VCO.	 Receive a RF signal (non modulated sound signal) from the antenna terminal. Connect between pin 4 of MPX connector and GND (pin 3 of MPX connector) through 1M Ω resistor. Select the "No.3 FH MON." of the SOUND mode in SERVICE MENU, and reset the setting value from 0 to 1. Connect the frequency counter to pin 2 (R.OUT) of MPX connector. Select the "No.10 SAP VCO". Confirm the initial setting value of "No.10 SAP VCO". Adjust the "No.10 SAP VCO" so that the frequency connector will display 78.67kHz±0.5kHz. Select the "No.3 FH MON." of the SOUND mode, and reset the setting value from 1 to 0.
MTS FILTER check			No.6 FILTER	Select the "No.6 FLTER" of the SOUND mode in SERVICE MENU. Verify that the "No.6 FLTER" is set at its initial setting value.

Item	Measuring instrument	Test point	Adjustment part	Description
MTS SEPARATION adjustment	TV audio multiplex signal generator Oscilloscope	MPX Connector 1 pin TVL 2 pin TVR [AV SELECTOR PWB]	No.7 LOW SEP.	 Input a stereo L signal (300Hz) from the TV Audio multiples signal generator to the antenna terminal. Connect an oscilloscope to pin 1 (L.OUT) of MPX connector, and display one cycle portion of the 300Hz signal. Change the connection of the oscilloscope to pin 2 (R.OUT) of MPX connector, and enlarge the voltage axis. Select the "No.7 LOW SEP." of the SOUND mode in SERVICE MENU. Confirm the initial setting value of the "No.7 LOW SEP." Adjust the "No.7 LOW SEP." so that the stroke element of the 300Hz signal will become minimum. Change the signal to 3kHz, and similarly adjust the "No.8 HI SEP.".
L-Channel signal waveform R-Channel crosstalk portion Minimum 1 cycle				

HOW TO CHECK THE HIGH VOLTAGE HOLD DOWN CIRCUIT

1. HIGH VOLTAGE HOLD DOWN CIRCUIT

After repairing the high voltage hold down circuit shown in Fig. 1. This circuit shall be checked to operate correctly.

2. CHECKING OF THE HIGH VOLTAGE HOLD DOWN CIRCUIT

- (1) Turn the POWER SW ON.
- (2) As shown in Fig.2, set the resistor (between X connector 1 & 3).
- (3) Make sure that the screen picture disappears.
- (4) Temporarily unplug the power plug.
- (5) Remove the resistor (between X connector 1 & 3).
- (6) Again plug the power plug, make sure that the normal picture is displayed on the screen.

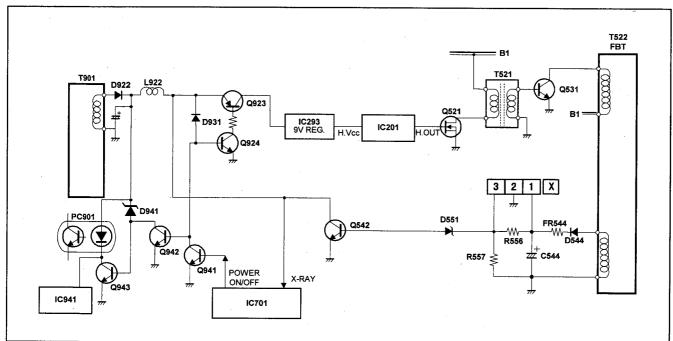


Fig. 1

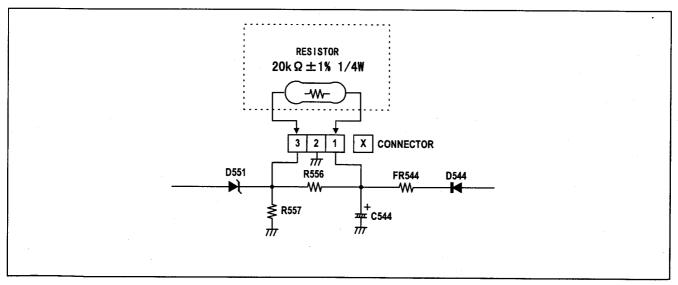


Fig.2

PARTS LIST

CAUTION

- The parts identified by the △ symbol are important for the safety. Whenever replacing these parts, be sure to use specified ones to secure the safety.
- The parts not indicated in this Parts List and those which are filled with lines in the Parts No. columns will not be supplied.
- P. W. Board Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.

ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

	RESISTORS		CAPACITORS
CR	Carbon Resistor	C CAP.	Ceramic Capacitor
FR	Fusible Resistor	E CAP.	Electrolytic Capacitor
PR	Plate Resistor	M CAP.	Mylar Capacitor
VR	Variable Resistor	HV CAP.	High Voltage Capacitor
HV R	High Voltage Resistor	MF CAP.	Metalized Film Capacitor
MFR	Metal Film Resistor	MM CAP.	Metalized Mylar Capacitor
MG R	Metal Glazed Resistor	MP CAP.	Metalized Polystyrol Capacitor
MPR	Metal Plate Resistor	PP CAP.	Polypropylene Capacitor
OM R	Metal Oxide Film Resistor	PS CAP.	Polystyrol Capacitor
CMF R	Coating Metal Film Resistor	TF CAP.	Thin Film Capacitor
UNF R	Non-Flammable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
CHVR	Chip Variable Resistor	TAN. CAP.	Tantalum Capacitor
CH MG R	Chip Metal Glazed Resistor	CH C CAP.	Chip Ceramic Capacitor
COMP. R	Composition Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

TOLERANCES									
. F	G	J	к	М	N	R	Н	Z	Р
±1%	±2%	±5%	±10%	±20%	±30%	+30% -10%	+50% -10%	+80% -20%	+100%

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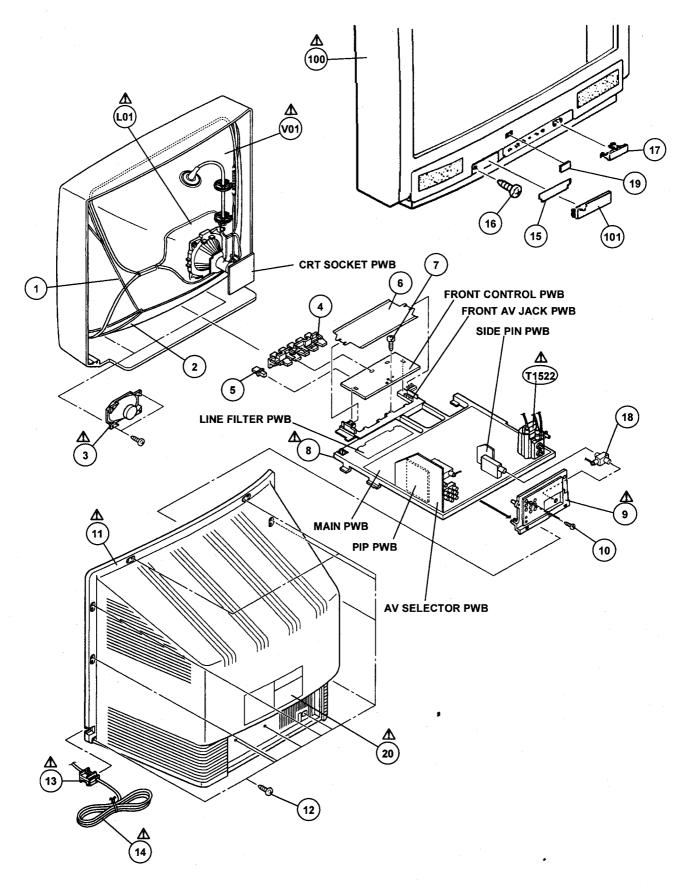
REMOTE CONTROL UNIT PARTS LIST (RM-C735-1A)

⚠ Ref.No.	Part No.	Part Name	Description	Local
	103RRC-049-01AR	BATTERY COVER		

EXPLODED VIEW PARTS LIST

Δ	Ref.No.	Part No.	Part Name	Description	Local
Δ	V01 L01 T1522 1 2 3 4 5	A90AFX15X071 CELD059-002J3 QQH0025-001 CHGB0027-0A CHGB0016-0C CEB5S12D-02J2 CM35776-A03-H CM36273-A01-H	ITC TUBE(C) DEGAUSSING COIL FBT BRAIDED ASSY BRAIDED WIRE SPEAKER PUSH KNOB POWER KNOB	Inc.DY (×2) (×2) (×2)SP01,SP02	* * * * * *
Δ Δ Δ	6 7 8 9 10 11 12	CM36634-A01-H QYSBSBG3010Z CM12985-001-VA LC20306-002A-VA QYSBSB3010Z CM12634-004-MA QYSBSFG4016Z CM23169-001-A	PROTECTOR TAPPING SCREW CHASSIS BASE TERMINAL BOARD TAPPING SCREW REAR COVER TAPPING SCREW POWER CORD CLAMP	(×2) (×11)	* * * * * *
△	14 15 16 17 18 19 20 100 101	QMPR030-200-JC CM48272-001-A QYSDSB3010M CM35983-001-H CEGA008-001 CM46084-A01 LC31044-002A-A CM12747-00N-MA CM36162-005-A	POWER CORD SHEET TAPPING SCREW REMOCON WINDOW ANTENNA SPLITTER BRAND MARK RATING LABEL FRONT CABINET DOOR	Inc.No.101	* * * * * * * * * * * * * * * * * * * *

EXPLODED VIEW



PRINTED WIRING BOARD PARTS LIST

MAIN P.W. BOARD ASS'Y (SGB-1009A-M2)

s Symbol No.	Part No.	Part Name	Description	Local	∆ Symb	ol.No.	Part No.	Part Name	Description	n Loc
VAR	ABLE	RESISTOR			R	ESI	STOR	-		
R1135	QVP0067-501Z	V R(DET LEVEL VR)	500Ω	*	R140		NRSA02J-682X	MG R	6.8kΩ 1/10W J	
					R140		NRSA02J-562X	MG R	5.6kΩ 1/10W J	J
RESI	STOR				R140		NRSA02J-472X	MG_R	4.7kΩ 1/10W J	
					R141		QRE121J-391Y	C R	390Ω 1/2W J	
R1001	NRSA02J-563X	MG R	56kΩ 1/10W J	*	R141		QRT029J-1R0	MF R	1.0Ω 2W J	
R1005	QRZ9017-4R7	FUSI.RESISTOR	4.7 Ω 1/4W J	*	R141		NRSA02J-223X	MG R	22kΩ 1/10W J	
R1006	NRSA02J-820X	MG R	82Ω 1/10W J	*	R141 R141		NRSA02J-223X NRSA02J-822X	MG R MG R	22kΩ 1/10W J	
R1101	NRSA02J-562X	MG R	5.6kΩ 1/10W J	*	1141	.3	MNJAUZJ-02ZA	rio K	8.2kΩ 1/10W J	,
R1102	NRSA02J-182X	MG R	1.8kΩ 1/10W J	*	R142	1	NRSA02J-OROX	MG R	0.0Ω 1/10W J	ı
R1103	QRE121J-101Y	C R	100Ω 1/2W J	*	R142		NRSA02J-562X	MG R	5.6kΩ 1/10W J	
R1104 R1105	NRSA02J-180X	MG R	18Ω 1/10W J	*	R143		NRSA02J-102X	MG R	1kΩ 1/10W J	
V1103	NRSA02J-270X	MG R	27Ω 1/10W J	*	R143	32	NRSA02J-183X	MG R	18kΩ 1/10W J	
R1111	NRSA02J-394X	MG R	390kΩ 1/10W J	*	R143		NRSA02J-223X	MG R	22kΩ 1/10W J	j
R1112	NRSA02J-334X	MG R	330kΩ 1/10W J	*	R143		NRSA02J-103X	MG R	10kΩ 1/10W J	J
R1113	NRSA02J-101X	MG R	100Ω 1/10W J	*	R150		NRSA02J-OROX	MG R	0.0Ω 1/10W J	
R1116	NRSA02J-680X	MG R	68Ω 1/10W J	*	R150	13	NRSA02J-103X	MG R	10kΩ 1/10W J	J
R1131	NRSA02J-102X	MG R	1kΩ 1/10W J	*	DIEG	ı.A	NOCAGO L 104V	HC D	1001-0-1/101	
R1132	NRSA02J-471X	MG R	470Ω 1/10W J	*	R150- R150		NRSA02J-104X NRSA02J-822X	MG R MG R	100kΩ 1/10W J	
R1133	NRSA02J-102X	MG R	1kΩ 1/10W J	* "	R150		NRSA02J-621X	MG R	8.2kΩ 1/10W J 620Ω 1/10W J	
R1134	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*	R152		NRSA02J-222X	MG R	2.2kΩ 1/10W J	
D1136	NDC 102 (271V	WC D	2000 41444		R152	å	QRE121J-103Y	C R	10kΩ 1/2W J	
R1136	NRSA02J-271X	MG R	270Ω 1/10W J	*	R152		QRL039J-122	OM R	1.2kΩ 3W J	
R1161 R1162	NRSA02J-332X	MG R	3.3kΩ 1/10W J	*	R152		QRL039J-152	OM R	1.5kΩ 3W J	
R1163	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*	∆ R153	.1	QRE121J-220Y	CR	22Ω 1/2W J	
R1164	NRSA02J-103X	MG R MG R	10kΩ 1/10W J	*		-	Ç		2432 1/211 3	
R1165	NRSA02J-102X NRSA02J-273X	MG R	1kΩ 1/10W J	*	R153		QRE121J-681Y	CR	680Ω 1/2W J	
R1166	NRSA02J-103X	MG R	27kΩ 1/10W J 10kΩ 1/10W J	*	R153		QRL039J-103	OM R	10kΩ 3W J	
R1167	NRSA02J-102X	MG R	1kΩ 1/10W J	*	R154		QRL039J-153	OM R	15kΩ 3₩ J	
112207	MISNOES TOEK	110 K	1K22 1/10H J	т.	R154		QRE121J-154Y	CR	150kΩ 1/2W J	
R1168	NRSA02J-101X	MG R	100Ω 1/10W J	*	R1553		NRSA02J-104X	MG R	100kΩ 1/10W J	
R1169	NRSA02J-561X	MG R	560Ω 1/10W J	*	△ R1550		QRA14CF-7321Y	MF R	7.32kΩ 1/4W F	
R1170	NRSA02J-123X	MG R	12kΩ 1/10W J	*	△ R155	/	QRA14CF-2741Y	MF R	2.74kΩ 1/4W F	
R1201	NRSA02J-181X	MG R	180Ω 1/10W J	*	R1558	8	NRSA02J-103X	MG R	10kΩ 1/10W J	
R1202	NRSA02J-271X	MG R	270Ω 1/10W J	*	R1560	۸	NIDCAAD I DOOV	MG R	221-0 1/101	
R1203	NRSA02J-821X	MG R	820Ω 1/10W J	*	R1582		NRSA02J-333X QRE121J-152Y	C R	33kΩ 1/10W J	
R1204	NRSA02J-681X	MG R	680Ω 1/10W J	*	R1583		QRE121J-132Y	CR	1.5kΩ 1/2W J	
R1205	NRSA02J-152X	MG R	1.5kΩ 1/10W J	*	R1584	1	NRSA02J-OROX	MG R	12kΩ 1/2W J 0.0Ω 1/10W J	
01313	NDC102 (201)	MC D	2000 414011		R1585		NRSA02J-102X	MG R	1kΩ 1/10W J	
R1213 R1215	NRSA02J-391X	MG R	390Ω 1/10W J	*	R1586		QRE121J-183Y	C R	18kΩ 1/2W J	
R1216	NRSA02J-824X	MG R MG R	820kΩ 1/10W J	*	R1587	7	NRSA02J-102X	MG R	1kΩ 1/10W J	
R1217	NRSA02J-OROX NRSA02J-564X	MG R	0.0Ω 1/10W J 560kΩ 1/10W J	*	R1588		QRL039J-100	OM R	10Ω 3W J	
R1220	NRSA02J-304X	MG R	470Ω 1/10W J	*			•			
R1231	NRSA02J-332X	MG R	3.3kΩ 1/10W J	*	R1589		QRE141J-OROY	CR	0.0Ω 1/4W J	
R1232	NRSA02J-183X	MG R	18kΩ 1/10W J	*	R1603	3	NRSA02J-682X	MG R	6.8kΩ 1/10W J	
R1233	NRSA02J-182X	MG R	1.8kΩ 1/10W J	*	R1605		NRSA02J-821X	MG R	820Ω 1/10W J	
			270002 27200 3		R1607		NRSA02J-682X	MG R	6.8kΩ 1/10W J	
R1234	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*	R1609		NRSA02J-821X	MG R	820Ω 1/10W J	
R1235	NRSA02J-472X	MG R	4.7kΩ 1/10W J	*	R1611		NRSA02J-223X	MG R	22kΩ 1/10W J	
R1236	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*	R1613		NRSA02J-333X	MG R	33kΩ 1/10W J	
R1292	QRL029J-220	OM R	22Ω 2W J	*	R1620	J	NRSA02J-183X	MG R	18kΩ 1/10W J	
R1293	QRX01GJ-1R0	MF R	1.0Ω 1W J	*	R1622	2	NRSA02J-183X	MG R	18kΩ 1/10W J	
R1301	NRSA02J-221X	MG R	220Ω 1/10W J	*	R1626		NRSA02J-103X	MG R	8.2kΩ 1/10W J	
R1302	NRSA02J-331X	MG R	330Ω 1/10W J	*	R1631		NRSA02J-473X	MG R	6.2kΩ 1/10W J	
R1303-04	NRSA02J-223X	MG R	22kΩ 1/10W J	*	R1701		NRSA02J-562X	MG R	5.6kΩ 1/10W J	
R1305-07	NRSA02J-OROX	MG R	0.00.1/10⊌	.4.	R1702		NRSA02J-223X	MG R	22kΩ 1/10W J	
R1308	NRSA02J-URUX	MG R	0.0Ω 1/10W J	*	R1703		NRSA02J-OROX	MG R	0.0Ω 1/10W J	
R1309	NRSA02J-103X	MG R	3.9kΩ 1/10W J	*	R1704		NRSA02J-472X	MG R	4.7kΩ 1/10W J	
R1311	NRSA02J-103X	MG R	10kΩ 1/10W J 27kΩ 1/10W J	*	R1705		NRSA02J-102X	MG R	1kΩ 1/10W J	
R1312	NRSA02J-0ROX	MG R	0.0Ω 1/10W J	*]	_				
R1314	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*	R1706		NRSA02J-563X	MG R	56kΩ 1/10W J	
R1316-18	NRSA02J-472X	MG R	4.7kΩ 1/10W J	*	R1707		NRSA02J-103X	→ MG R	10kΩ 1/10W J	
R1319	NRSA02J-184X	MG R	180kΩ 1/10W J	*	R1708		NRSA02J-OROX	MG R	0.0Ω 1/10W J	
				•	R1709		NRSA02J-472X	MG R	4.7kΩ 1/10W J	
R1351	NRSA02J-102X	MG R	1kΩ 1/10W J	*	R1710		NRSA02J-102X	MG R	1kΩ 1/10W J	
	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*	R1711		NRSA02J-124X	MG R	120kΩ 1/10W J	
R1352										
	QRJ146J-180X NRSA02J-103X	CR MGR	18Ω 1/4W J 10kΩ 1/10W J	*	R1712 R1713		NRSA02J-184X NRSA02J-102X	MG R MG R	180kΩ 1/10W J 1kΩ 1/10W J	

△ Symbol No. Part M	No. Part		n Local	∆ Symbol No.	Part No.	Part Name	Description Loca
RESIST	OR				STOR		
R1714 NRSAO2 R1715 NRSAO2 R1716-17 NRSAO2 R1718 NRSAO2 R1721 NRSAO2 R1722 NRSAO2 R1724 NRSAO2	2J-103X MG R 2J-224X MG R 2J-102X MG R 2J-333X MG R 2J-102X MG R 2J-561X MG R 2J-221X MG R 2J-682X MG R	10kΩ 1/10W 220kΩ 1/10W 1kΩ 1/10W 33kΩ 1/10W 1kΩ 1/10W 560Ω 1/10W 220Ω 1/10W 6.8kΩ 1/10W] *] *] *] *] *	R1918 R1923 R1924 R1925 R1932 R1933 R1934 R1941	QRE121J-102Y QRT039J-2R2 QRL029J-221 NRSA02J-103X NRSA02J-104X NRSA02J-223X NRSA02J-682X NRSA02J-102X	C R MF R OM R MG R MG R MG R MG R	1kΩ 1/2W J 2.2Ω 3W J 220Ω 2W J 10kΩ 1/10W J 100kΩ 1/10W J 22kΩ 1/10W J 6.8kΩ 1/10W J 1kΩ 1/10W J
R1727 NRSAO2 R1728 NRSAO2 R1729 NRSAO2 R1730 NRSAO2 R1731-32 NRSAO2 R1734 NRSAO2	2J-221X MG R 2J-682X MG R 2J-221X MG R 2J-682X MG R 2J-682X MG R 2J-682X MG R 2J-102X MG R 2J-102X MG R	220Ω 1/10W J 6.8kΩ 1/10W J 220Ω 1/10W J 6.8kΩ 1/10W J 220Ω 1/10W J 220Ω 1/10W J 1kΩ 1/10W J 47kΩ 1/10W J] *] *] *] *	R1942 R1943 R1944 R1945 R1946 R1947 R1948 R1951-52	NRSA02J-222X NRSA02J-30R0X NRSA02J-393X NRSA02J-223X NRSA02J-104X QRJ149J-821 QRK129J-150 QRT029J-1R0	MG R MG R MG R MG R C R C R C R	2.2kΩ 1/10W J 0.0Ω 1/10W J 39kΩ 1/10W J 22kΩ 1/10W J 100kΩ 1/10W J 820Ω 1/4W J 15Ω 1/2W J 1.0Ω 2W J
R1738 NRSAOZ R1740 NRSAOZ R1741 NRSAOZ R1742 NRSAOZ R1743 NRSAOZ	2J-683X MG R 2J-682X MG R 2J-101X MG R 2J-103X MG R 2J-102X MG R 2J-392X MG R 2J-102X MG R	68kΩ 1/10W 6.8kΩ 1/10W 100Ω 1/10W 10kΩ 1/10W 1kΩ 1/10W 1/) *) *) *] *	R1954 R1955 R1956 ▲ R1998	QRE121J-272Y QRE121J-473Y NRSA02J-223X QRZ0057-825	C R C R MG R C R	2.7kΩ 1/2W J 47kΩ 1/2W J 22kΩ 1/10W J 8.2MΩ 1W J
R1745 NRSAOZ R1746 NRSAOZ R1747 NRSAOZ R1748-49 NRSAOZ R1750-52 NRSAOZ R1753 NRSAOZ R1754-55 NRSAOZ R1756 NRSAOZ	2J-392X MG R 2J-102X MG R 2J-392X MG R 2J-392X MG R 2J-102X MG R 2J-0R0X MG R 2J-103X MG R 2J-122X MG R 2J-122X MG R 2J-122X MG R	3.9k\(\Omega\$ 1/10\) 1k\(\Omega\$ 1/10\) 3.9k\(\Omega\$ 1/10\) 1k\(\Omega\$ 1/10\) 0.0\(\Omega\$ 1/10\) 10k\(\Omega\$ 1/10\) 2.2k\(\Omega\$ 1/10\) 1.2k\(\Omega\$ 1/10\) 1k\(\Omega\$ 1/10\) 1k\(\Omega\$ 1/10\) 1k\(\Omega\$ 1/10\)	J * J * J * J * J * J * J * J * J *	C1001 C1007 C1008-09 C1010-11 C1101-02 C1104-05 C1111 C1112-14	QETN1HM-106Z QETN1CM-477Z QETN1CM-476Z NCB21HK-103X NCB21HK-103X NCB21HK-103X QETN1EM-476Z NCB21HK-103X	E CAP. E CAP. C CAP. C CAP. C CAP. C CAP. C CAP. C CAP.	10μF 50V M 470μF 16V M 47μF 25V M 0.01μF 50V K 0.01μF 50V K 0.01μF 50V K 47μF 25V M 0.01μF 50V K
R1758 NRSAOZ R1761 NRSAOZ R1762 NRSAOZ R1764 NRSAOZ R1765 NRSAOZ R1766 NRSAOZ R1771-72 NRSAOZ	2J-105X MG R 2J-102X MG R 2J-153X MG R 2J-105X MG R 2J-683X MG R 2J-221X MG R 2J-682X MG R	1MΩ 1/10W 1kΩ 1/10W 1kΩ 1/10W 15kΩ 1/10W 1MΩ 1/10W 1MΩ 1/10W 100kΩ 1/10W 220Ω 1/10W 68kΩ 1/10W 6.8kΩ 1/10W 6.8kΩ 1/10W) * } * j * j * j * j *	C1116 C1117 C1118 C1119 C1120 C1123-24 C1161 C1163-64	QFV71HJ-224Z QETN1EM-476Z NCB21HK-103X NDC21HJ-681X QETN1HM-474Z NCB21HK-103X QETN1HM-106Z NDC21HJ-470X	MF CAP. E CAP. C CAP. C CAP. E CAP. E CAP. E CAP. C CAP. C CAP.	0.22µF 50V J 47µF 25V M 0.01µF 50V K 680pF 50V J 0.47µF 50V M 10µF 50V M 47pF 50V J
R1785 NRSAOZ R1786 NRSAOZ R1787 NRSAOZ R1788 NRSAOZ R1789 NRSAOZ R1790 NRSAOZ	2J-563X MG R 2J-223X MG R 2J-0R0X MG R 2J-103X MG R 2J-103X MG R 2J-103X MG R 2J-0R0X MG R 2J-103X MG R	56kΩ 1/10W 22kΩ 1/10W 0.0Ω 1/10W 10kΩ 1/10W] * j * j * j * j *	C1165-66 C1205 C1207 C1208 C1209 C1210 C1211 C1212	NCB21HK-103X NDC21HJ-330X QFLC1HJ-104Z QETN1HM-475Z QETN1CM-227Z NCB21HK-103X NDC21HJ-681X QFLC1HJ-104Z	C CAP. C CAP. M CAP. E CAP. C CAP. C CAP. C CAP. M CAP.	0.01µF 50V K 33pF 50V J 0.1µF 50V J 4.7µF 50V M 220µF 16V M 0.01µF 50V K 680pF 50V J
R1792 NRSAO; R1793-97 NRSAO; R1798 NRSAO; R1799 NRSAO; R1801-03 NRSAO; R1811-13 NRSAO; R1815 NRSAO;	2J-472X MG R 2J-561X MG R 2J-563X MG R 2J-682X MG R 2J-221X MG R 2J-20R0X MG R 2J-0R0X MG R 2J-103X MG R	4.7kΩ 1/10W 560Ω 1/10W 56kΩ 1/10W 6.8kΩ 1/10W 220Ω 1/10W 0.0Ω 1/10W 0.0Ω 1/10W 10kΩ 1/10W) *] *] *] *] *	C1213 C1214 C1215 C1231 C1232 C1233 C1251 C1288	QETN1HM-105Z QFLC1HJ-104Z QETN1HM-225Z QETN1EM-476Z QETN1HM-106Z QETN1EM-476Z QFLC1HJ-473Z QETN1CM-108Z	E CAP. M CAP. E CAP. E CAP. E CAP. E CAP. C CAP. E CAP. E CAP.	1μF 50V M 0.1μF 50V J 2.2μF 50V M 47μF 25V M 10μF 50V M 47μF 25V M 0.047μF 50V J 1000μF 16V M
▲ R1901 QRF154 R1902 QRG033 R1903 QRE122 R1904-05 QRT025 R1907-08 QRL025 R1909 QRE122 R1910 QRF154	4K-3R3 UNF R 9J-333 OM R 1J-681Y C R	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	K *	C1290-92 C1293-95 C1296 C1298 C1299 C1303 C1304 C1305	QETN1CM-107Z NCB21HK-103X QETN1CM-107Z NCB21HK-103X QETN1CM-227Z NDC21HJ-560X NCB21HK-103X NDC21HJ-120X	E CAP. C CAP. E CAP. C CAP. E CAP. C CAP. C CAP. C CAP. C CAP.	100μF 16V M 90.01μF 50V K 90.01μF 50V F0.01μF 50V F0.01
R1913 QRN14: R1914 QRE12: R1916 QRE12:	1J-183Y C R 1J-4R7Y C R 1J-152Y C R 1J-103Y C R	18kΩ 1/4W 4.7Ω 1/2W 1.5kΩ 1/2W 10kΩ 1/2W	j. * J * J *	C1306 C1307 C1308-09 C1311	QETN1EM-476Z NCB21HK-103X QFLC1HJ-104Z QFLC1HJ-103Z	E CAP. C CAP. M CAP. M CAP.	47μF 25V M 90.01μF 50V K 90.1μF 50V J 90.01μF 50V 90V 90.01μF 50V 90V 9

∆ Symbol No.	Part No.	Part Name	Description Local	∆ Symbol No.	Part No.	Part Name	Description	Local
CAP	ACITOR			CAP	ACITOR			
C1312 C1313 C1314 C1315 C1320 C1351 C1352 C1391	QETN1HM-225Z QETN1HM-475Z NDC21HJ-151X NRSA02J-0ROX NDC21HJ-330X QFLC1HJ-473Z QFLC1HJ-473Z QETN1CM-107Z	E CAP. E CAP. C CAP. MG R C CAP. M CAP. M CAP. E CAP.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	C1715 C1716 C1717 C1718 C1719 C1720 C1722 C1731	NDC21HJ-150X NDC21HJ-390X NDC21HJ-151X NRSA02J-0R0X QETN1HM-106Z NDC21HJ-151X NCB21HK-103X QETN1HM-105Z	C CAP. C CAP. C CAP. MG R E CAP. C CAP. C CAP. E CAP. E CAP.	15pF 50V J 39pF 50V J 150pF 50V J 0.0Ω 1/10W J 10μF 50V M 150pF 50V J 0.01μF 50V K 1μF 50V M	* * * * * * * *
C1402 C1406 C1407 C1410 C1411 C1412 C1413 C1414	QETN1HM-105Z QFLC1HJ-103Z QCS32HJ-100Z QETN1VM-107Z QETN1VM-477Z QFLC2AK-563Z QETM1EM-228 QETN1HM-335Z	E CAP. M CAP. C CAP. E CAP. E CAP. M CAP. E CAP. M CAP. E CAP.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	C1732 C1733 C1734 C1735 C1761 C1762 C1763 C1766	NCB21HK-103X NCS21HJ-101X NCB21HK-103X QETN1AM-2277 QETN1HM-105Z NDC21HJ-221X NCB21HK-102X QENC1HM-474Z	C CAP. C CAP. C CAP. E CAP. C CAP. C CAP. C CAP. D CAP. C CAP.	0.01μF SOV K 100pF SOV J 0.01μF 50V K 220μF 10V M 1μF 50V M 220pF 50V J 1000pF 50V K 0.47μF 50V M	* * * * * * * * *
C1421 C1422 C1425 C1501 C1502-03 C1505-06 C1507 C1521	QETN1HM-476Z QETN1EM-476Z QFN31HJ-152Z QETN1CM-107Z NCB21HK-103X NCB21HK-103X QETN1HM-105Z QCB32HK-151Z	E CAP. E CAP. M CAP. C CAP. C CAP. E CAP. C CAP. C CAP. C CAP.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	C1771 C1772 C1777 C1779 C1782 C1783 C1784 C1785-88	QETN1EM-476Z NCB21HK-103X NCB21HK-103X NDC21HJ-100X NDC21HJ-102X NCB21HK-222X NCB21HK-102X NRSA02J-0R0X	E CAP. C CAP. C CAP. C CAP. C CAP. C CAP. C CAP. MG R	$\begin{array}{ccccc} 47\mu F & 25V & M \\ 0.01\mu F & 50V & K \\ 0.01\mu F & 50V & K \\ 10pF & 50V & J \\ 1000pF & 50V & J \\ 2200pF & 50V & K \\ 1000pF & 50V & K \\ 0.0\Omega & 1/10W & J \end{array}$	* * * * * * *
C1522 C1523 △ C1531 △ C1532 △ C1533 △ C1534 △ C1535 C1536	QCB32HK-331Z QETN2CM-105Z QFZ0117-3001 QFZ0117-1222 QFP32GJ-223 QEHR2EM-225Z QFZ0119-754 QCB32HK-561Z	C CAP. E CAP. MPP CAP. MPP CAP. PP CAP. E CAP. MPP CAP. C CAP.	330pF 500V K	C1789 C1805 C1806 C1811-13 △ C1904 △ C1905 △ C1907 △ C1910	QCS31HJ-331Z QETN1CM-227Z NCB21HK-103X NCB21HK-103X QCZ9075-471 QCZ9075-471 QCZ9074-472 QEZ0371-397	C CAP. E CAP. C CAP. C CAP. C CAP. C CAP. C CAP. C CAP. E CAP.	330pF 50V J 220µF 16V M 0.01µF 50V K 0.01µF 50V K 470pFAC250V M 4700pFAC400V M 390µF 400V M	* * * * * * * *
C1538 C1541 C1542 C1544 C1545 C1546 C1548 C1549	QEZ0420-107 QETM2EM-336 QETM1VM-108 QETM1VM-107Z QFLC2AJ-103Z QFV71HJ-564Z QCS32HJ-221Z QETM1HM-106Z	E CAP. E CAP. E CAP. E CAP. M CAP. MF CAP. C CAP. E CAP.	100µF 160V M * 33µF 250V M * 1000µF 35V M * 100µF 35V M * 0.01µF 100V J * 0.56µF 50V J * 220pF 500V J * 10µF 50V M *	C1911 C1912 C1913 C1914 C1915 C1916 C1918 C1919	QETN1VM-477Z QCS31HJ-471Z QCZ0325-102 QCZ0122-391 QCB32HK-103 QCZ0325-561 QFN31HJ-102Z QFN31HJ-152Z	E CAP. C CAP. C CAP. C CAP. C CAP. M CAP. M CAP.	470μF 35V M 470pF 50V J 1000pF 2000V K 390pF 2000V K 0.01μF 500V K 560pF 2000V K 1000pF 50V J 1500pF 50V J	* * * * * * *
C1551 C1578-79 C1581 C1582 C1584 C1604 C1607 C1609	QETN1HM-106Z QEM61HK-475Z QFLC1HJ-103Z QFLC1HJ-563Z NCB21HK-473X QENC1HM-474Z QENC1HM-474Z QETN1CM-107Z	E CAP. E CAP. M CAP. M CAP. C CAP. BP E CAP. BP E CAP. E CAP.	10µF 50V M * 4.7µF 50V K 0.01µF 50V J * 0.056µF 50V J * 0.047µF 50V K * 0.47µF 50V M * 100µF 16V M *	C1920 C1921 C1922 C1923 & C1924 C1926 C1927 C1928	QFLC1HJ-104Z QCZ0116-152Z QCZ0132-152Z QCB32HK-561Z QEZ0420-107 QETN1CM-108Z QETN1CM-107Z QETN1EM-108Z	M CAP. C CAP. C CAP. E CAP. E CAP. E CAP. E CAP. E CAP. E CAP.	0.1µF 50V J 1500pF 1000V K 1500pF 500V K 560pF 500V K 100µF 160V M 1000µF 16V M 1000µF 25V M	* * * * * * * *
C1613 C1615 C1617 C1618 C1622 C1623-24 C1631 C1701	QETN1EM-108Z QETN1EM-108Z QETN1EM-108Z QFV71HJ-224Z QETN1HM-106Z QENC1HM-474Z QETN1VM-476Z NDC21HJ-102X	E CAP. E CAP. E CAP. MF CAP. E CAP. BP E CAP. E CAP. C CAP.	1000µF 25V M * 1000µF 25V M * 1000µF 25V M * 0.22µF 50V J * 10µF 50V M * 0.47µF 50V M * 47µF 35V M * 1000pF 50V J *	C1938 C1951 C1952 △ C1981 △ C1982 △ C1990	NCB21HK-473X QETN1CH-107Z QETN1HM-476Z QCZ9078-102 QCZ9078-102 QCZ9075-222	C CAP. E CAP. E CAP. C CAP. C CAP. C CAP.	0.047µF 50V K 100µF 16V M 47µF 50V M 1000pFAC250V M 2200pFAC250V M	* * * * * *
C1702 C1703 C1704 C1705 C1706 C1707 C1708 C1709	NCB21HK-822X NCB21HK-102X NCB21HK-103X NDC21HJ-471X QFLC1HJ-104Z NDC21HJ-180X NDC21HJ-220X QETN1EM-476Z	C CAP. C CAP. C CAP. M CAP. C CAP. C CAP. C CAP. C CAP. C CAP.	8200pF 50V K * 1000pF 50V K * 0.01µF 50V K * 470pF 50V J * 0.1µF 50V J * 18pF 50V J * 22pF 50V J * 47µF 25V M *	TRAN T1111 T1521 Δ T1522 Δ T1901	CELT001-209J3 CE42034-002 QQH0025-001 CETS097-001J8	C.WAVE TRANSF. H.DRIVE TRANSF. FLYBACK TRANSF. SW TRANSF.		* * * *
C1710 C1711 C1712-13 C1714	QFLC1HJ-104Z NCB21HK-103X QETN1CM-107Z QFLC1HJ-104Z	M CAP. C CAP. E CAP. M CAP.	0.1µF 50V J * 0.01µF 50V K * 100µF 16V M * 0.1µF 50V J *	L1001 L1101 L1131	QQL03BJ-150Z QQL2014-R22 QQL03BJ-220Z	COIL PEAKING COIL COIL	15µН 0.22µН 22µН	* * *

_	<u> </u>	Part No.	Part Name	Description	Local
	COIL	_			
	L1161	QQL03BJ-220Z	COIL	22µН	*
	L1202 L1205	QQLO3BJ-560Z QQLO3BJ-4R7Z	COIL COIL	56µH 4.7µH	*
	L1301	QQL03BJ-150Z	COIL	15µH	*
	L1501	QQL03BJ-4R7Z	COIL	4.7μΗ	*
	L1531 L1532	CE41663-00B QQLZ016-821	LINEARITY COIL CHOKE COIL		*
	L1591	QQLZ018-430	HEATER CHOKE		*
	L1701-02	QQL03BJ-4R7Z	COIL	4.7μΗ	*
	L1704	QQL39BK-8R2Z	COIL	8.2µH	*
	L1771 L1921	QQL03BJ-4R7Z QQL42AK-820Z	COIL .	4.7µH 82µH	*
	L1922	QQL42AK-220Z	COIL	22µН	*
	DIO) E			
			TENED DIODE		. *
	01001 01201	MTZJ33A-T2 1SS133-T2	ZENER DIODE SI.DIODE		*
	D1211-12	1SS133-T2	SI.DIODE		*
	D1391 D1401	MTZJ8.2B-T2 1N4003-T2	ZENER DIODE SI.DIODE		*
	D1401 D1402	MTZJ75-T2	ZENER DIODE		*
Λ	D1531	RH3G-F1	SI.DIODE		*
҈	D1532	RU3AM-LFC4	SI.DIODE		*
	D1533 D1540	RGP10J-5025-T3 MTZJ36A-T2	SI.DIODE ZENER DIODE		k k
	D1540 D1541	RH1S-T3	SI.DIODE		*
	D1542	RGP10J-5025-T3	SI.DIODE		*
	D1543 D1544	RH1S-T3 1SS81-T2	SI.DIODE SI.DIODE		*
	D1546	15R124-400A-T2	SI.DIODE		*
	D1549	MTZJ9.18-T2	ZENER DIODE		*
	D1551	MTZJ7.5S-T2	ZENER DIODE		*
	D1552 D1631-34	155133-T2 155133-T2	SI.DIODE SI.DIODE		*
	D1701-04	155133-T2	SI.DIODE		*
	D1706-08 D1710	155133-T2 MTZJ5.6A-T2	SI.DIODE ZENER DIODE		*
	D1710 D1712-13	155133-T2	SI.DIODE		*
	D1771-72	MTZJ6.2B-T2	ZENER DIODE		*
	D1783	155133-T2	SI.DIODE		*
Δ	D1804 D1901	MTZJ15A-T2 D3SBA60	ZENER DIODE DIODE BRIDGE		*
Δ	D1902	RGP10J-5025-T3	SI.DIODE		*
	D1903-04	155133-T2	SI.DIODE		*
	D1905 D1906	RU1C-LFC4 MTZJ6.8A-T2	SI.DIODE ZENER DIODE		*
	D1910	RGP10J-5025-T3	SI.DIODE		*
	D1911	155133-T2	SI.DIODE		*
	D1912 D1913	MTZJ15A-T2 RGP10J-5025-T3	ZENER DIODE SI.DIODE		*
	D1914	MTZJ15A-T2	ZENER DIODE		*
	D1921 D1922-23	RU30A-F1 RU3YX-LFC4	SI.DIODE SI.DIODE		*
	D1922-23	155133-T2	SI.DIODE		*
	D1941	MTZJ9.1C-T2	ZENER DIODE		*
	D1951 D1952	MTZJ7.5S-T2 1SS133-T2	ZENER DIODE SI.DIODE		*
		30000 16			
	TRAI	VSISTO	R		
	Q1101 01131	2SC5083/L-P/-T 2SC2412K/OR/-X	SI.TRANSISTOR SI.TRANSISTOR		1
	Q1131 Q1161	2SC2412K/QR/-X 2SC2412K/QR/-X	SI.TRANSISTOR		1
	Q1201	2SC2412K/QR/-X	SI.TRANSISTOR		*
	Q1202	2SA1037AK/QR/-X	SI.TRANSISTOR		*

Δ	Symbol No.	Part No.	Part Name	Description	Local
-	TRAN	SISTOR	2		
ΔΔ	01301-02 01303-05 01351 01521 01531 01542 01551 01553	2SC2412K/QR/-X 2SA1037AK/QR/-X 2SC2412K/QR/-X BSN274 2SD2539-LB 2SC2785/JH/-T 2SC2412K/QR/-X 2SD1408/QY/-LB	SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR F.E.T. SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR	H.OUT	* * * * * * *
	Q1601 Q1603 Q1604-05 Q1631 Q1701-02 Q1703 Q1704 Q1781-83	2SC2412K/QR/-X DTC124EKA-X DTC323TK-X 2SA1037AK/QR/-X 2SC2412K/QR/-X DTC124EKA-X 2SC2412K/QR/-X 2SC2412K/QR/-X	SI.TRANSISTOR DIGI.TRANSISTOR DIGI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR DIGI.TRANSISTOR DIGI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR		* * * * * * * * *
	Q1911 Q1923 Q1924 Q1941 Q1942-43 Q1951	2SA933AS/QR/-T 2SA1020/Y/-T 2SC2412K/QR/-X DTC124EKA-X 2SC2412K/QR/-X 2SA949/Y/Z1-T	SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR DIGI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR		* * * * *
_	IC	,			
	IC1001 IC1101 IC1201 IC1291 IC1292 IC1293 IC1294 IC1301	AN78LO5-T M52342SP TB1230N AN78NO5 AN78LO5-T BA17809T AN78LO9 TDA8601	I.C. (MONO-ANA) I.C. (MONO-ANA) I.C. (DIGI-OTHER) I.C. (M) I.C. (MONO-ANA) I.C. (MONO-ANA) I.C. (MONO-ANA) I.C. (MONO-ANA)		* * * *
	IC1401 IC1402 IC1601 IC1701 IC1702 IC1703 IC1901 IC1941	LA7841 AN78N12 LA4485 M37271MF-221SP AT24C04-73885 L78LRO5E-MA STR-F6655 SE135N	I.C. (MONO-ANA) I.C. (MONO-ANA) I.C. (MONO-ANA) I.C. (MICRO-COMP) I.C. I.C. I.C. (MONO-ANA) I.C. (HYBRID) I.C. (HYBRID)	(SERVICE)	* * *
_	ОТНЕ	RS			
↑ ↑ ↑	CF1001 CF1131 CF1161 CP1921 CP1922 FR1542 FR1544 FR1545	FTP47.25MF QAX0339-001 SFSH4.5MCB ICP-N75-Y ICP-N75-Y QRZ9021-1R2 QRZ9017-4R7 QRE121J-682Y		1.2Ω 1W J 1.7Ω 1/4W J 8kΩ 1/2W J	* * * * * * *
△	K1401 K1901-03 K1921 K1922 K1923 PC1901 SF1101 TH1901	QQR0582-001Z QQR0582-001Z QQR0621-001Z QQR0582-001Z QQR0621-001Z TLP621(GR)-LF2 QAX0324-002 QAD0101-9R0	BEADS CORE BEADS CORE BEADS CORE BEADS CORE BEADS CORE I.C.(PH.COUPLER) SAW FILTER P.THERMISTOR		* * * * *
Δ	TH1902 TU1001 W1018-21 W1412 W1432 W1441 W1448-49 W1452	QAD0101-9R0 CEEM270-A02 NRSA02J-OROX NRSA02J-OROX NRSA02J-OROX NRSA02J-OROX NRSA02J-OROX NRSA02J-OROX	MG R 00 MG R 00 MG R 00 MG R 00	.0Ω 1/10W J .0Ω 1/10W J .0Ω 1/10W J .0Ω 1/10W J .0Ω 1/10W J .0Ω 1/10W J	* * * * * * *
			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		

Δ	Symbol No.	Part No.	Part Name	Description	Local
	ОТНЕ	ERS			
	W1456-59	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	W1461	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	W1471	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	W1474	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	W1477	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	W1489-90	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	W1502	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	W1532	MRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	W1536	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	W1552	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	W1557-58	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	W1564	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	W1566	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	W1571	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	W1585	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	W1592	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	W1594-95	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	W1615	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*.
	W1618-20	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	W1624	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	W1626	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	W1644	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	W1659-60	NRSA02J-OROX	MG R	0.0Ω 1/10₩ J	*
	W1675	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	W1680	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	W1690	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	W1692-93	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	W1696-97	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	W1707	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	W1715-16	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	W1719	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	W1723-24	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	W1730	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	X1301	QAX0305-001Z	CRYSTAL		*
	X1701	QAX0397-001Z	CRYSTAL	<u> </u>	*
	Y1003	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	Y1311	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	Y1601	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	Y1703	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*

CRT SOCKET P.W. BOARD ASS'Y (SGB-3007A-M2)

Δ	Symbol No.	Part No.	Part Name	Description	Local
	RES	ISTOR			
	R3301-06 R3307-09 R3310-15 R3316-18 R3319 R3325-27 R3341-43 R3351	NRSA02J-151X NRSA02J-820X QRG029J-153 NRSA02J-151X NRSA02J-101X QRZ0111-152 NRSA02J-182X NRSA02J-221X	MG R MG R OM R MG R MG R C R MG R	150Ω 1/10W J 82Ω 1/10W J 15kΩ 2W J 150Ω 1/10W J 100Ω 1/10W J 15 Ω 1/2W K 1.8kΩ 1/10W J 220Ω 1/10W J	* * * * * * * * *
	R3352 R3354 R3363	NRSAO2J-152X NRSAO2J-OROX QRC122K-474	MG R MG R COMP.R	1.5kΩ 1/10W J 0.0Ω 1/10W J 470kΩ 1/2W K	*
_	CAPA	ACITOR	W-1-1		
Δ	C3301-03 C3311 C3321 C3331-33 C3351 C3363	NDC21HJ-391X QETN1CM-337Z QETN2EM-105Z NDC21HJ-101X QETN1CM-107Z QCZ0121-102	C CAP. E CAP. E CAP. C CAP. E CAP. C CAP.	390pF 50V J 330μF 16V M 1μF 250V M 100pF 50V J 100μF 16V M 1000pF 3000V Z	* * * * *
	COIL				
	L3304	QQL39BK-470Z	COIL	47μΗ	*
_	DIO	DE			
	D3301-03 D3351 D3353 D3354-56	155133-T2 155133-T2 MTZJ5.1B-T2 155133-T2	SI.DIODE SI.DIODE ZENER DIODE SI.DIODE		* * *
_	TRAN	NSISTO	R		
	Q3301-03 Q3304-06 Q3351 Q3352	2SC5083/L-P/-T 2SC4544-LB 2SA1037AK/QR/-X 2SC2412K/QR/-X	SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR		* * *
_	ОТНЕ	ERS			
⚠	SČ3001	CE42535-001J1	C.R.T.SOCKET		*

FRONT CONTROL P.W. BOARD ASS'Y (SGB-4005A-M2)

Part Name	Description Loca
C R	10kΩ 1/2W J
CR	5.6kΩ 1/2W J
C R	10kΩ 1/2W J
C R	5.6kΩ 1/2W J
CR	10kΩ 1/2W J
C R	22kΩ 1/2W J
C R	560Ω 1/2W J
C R	22kΩ 1/2W J
C R	560Ω 1/2W J
C R	10kΩ 1/2W J
E CAP.	47µF 25V M
C CAP.	560pF 500V K
COIL	56µH
L.E.D.	
₹	
SI.TRANSISTOR	
SI.TRANSISTOR	
	,
IFR DETECT UNIT	
	
PUSH SWITCH	(VOL +)
PUSH SWITCH	· (VOL -)
PUSH SWITCH	(CH +)
BUCD CUTTOU	(CH -)
PUSH SWITCH	(MCMI)
PUSH SWITCH PUSH SWITCH PUSH SWITCH	(MENU) (Power)

AV SELECTOR P.W. BOARD ASS'Y (SGB-8008A-M2)

Loc	Description	Part Name	Part No.	Symbol No.
		RESISTOR	IABLE	VAR
	47kΩ	V R(QVP0006-473Z	R8129
			ISTOR	RES
	22kΩ 1/10W J	MG R	NRSA02J-223X	R8001
	560Ω 1/10W J	MG R	NRSA02J-561X	R8002-04
	5.6Ω 1/2W J	C R	ORK129J-5R6	R8005
	82Ω 1/10W J	MG R	NRSA02J-820X	R8006
	5.6kΩ 1/10W J	MG R	NRSA02J-562X	R8101
		MG R	NRSA02J-182X	R8102
	100Ω 1/2W J 18Ω 1/10W J	CR MGR	QRE121J-101Y NRSA02J-180X	R8103 R8104
	27Ω 1/10W J	MG R	NRSA02J-270X	R8105
	2.7kΩ 1/10W J	MG R	NRSAO2J-272X	R8113
	330kΩ 1/10W J	MG R	NRSA02J-334X	R8114
	220Ω 1/10W D	MF R	NRVAO2D-221X	R8116
	100kΩ 1/10W J	MG R	NRSA02J-104X	R8118-19
	100Ω 1/10W J	MG R	NRSA02J-101X	R8120
	10kΩ 1/10W J	MG R	NRSA02J-103X	R8121
	270Ω 1/10W J	MG R	NRSA02J-271X	R8122
	180Ω 1/10W J	MG R	NRSA02J-181X	R8123
	750Ω 1/10W J	MG R	NRSA02J-751X	R8125
	1kΩ 1/10W J	MG R	NRSA02J-102X	R8126
	33Ω 1/10W J	MG R	NRSA02J-330X	R8127
	1kΩ 1/10W J	MG R	NRSA02J-102X	R8128
	1kΩ 1/10W J	MG R	NRSA02J-102X	
				R8201-03
	680Ω 1/10W J 3.9kΩ 1/10W J	MG R MG R	NRSA02J-681X	R8204
			NRSA02J-392X	R8205
	390Ω 1/10W J	MG R	NRSAO2J-391X	R8207
	1kΩ 1/10W J	MG R:	NRSAO2J-102X	R8208
	10kΩ 1/10W J	MG R	NRSA02J-103X	R8209
	4.7kΩ 1/10W J	MG R	NRSAO2J-472X	R8210
	820Ω 1/10W J	MG R	NRSA02J-821X	R8211
	0.0Ω 1/10W J	MG R	NRSA02J-OROX	R8221-22
	1.5kΩ 1/10W J	MG R	NRSA02J-152X	R8223
	820Ω 1/10W J	MG R	NRSA02J-821X	R8224
	10kΩ 1/10W J	MG R	NRSA02J-103X	R8225-27
	15kΩ 1/10W J	MG R	NRSA02J-153X	R8228
	1kΩ 1/10W J	MG R	NRSAO2J-102X	R8251-53
	680Ω 1/10W J	MG R	NRSA02J-681X	R8254
	560Ω 1/10W J	MG R	NRSA02J-561X	R8255
	680Ω 1/10W J	MG R	NRSA02J-681X	R8256
	1kΩ 1/10W J	MG R	NRSA02J-102X	R8257
	390Ω 1/10W J	MG R	NRSA02J-391X	R8258
	10kΩ 1/10W J	MG R	NRSA02J-103X	R8260
	4.7kΩ 1/10W J	MG R	NRSA02J-472X	R8261
	820Ω 1/10W J	MG R	NRSA02J-821X	R8262
	15Ω 2W J	OM R	QRL029J-150	R8292
	2.2kΩ 1/10W J	MG R	NRSA02J-222X	R8301
	390Ω 1/10W J	MG R	NRSA02J-391X	R8302
	1kΩ 1/10W J	MG R	NRSA02J-102X	R8303
	680Ω 1/10W J	MG R	NRSA02J-681X	R8304
	560Ω 1/10W J	MG R	NRSA02J-561X	R8305
	680Ω 1/10W J	MG R	NRSAO2J-681X	R8306
	1kΩ 1/10W J	MG R	NRSAO2J-102X	R8307
	390Ω 1/10W J	MG R	NRSA02J-391X	R8308
	10kΩ 1/10W J	MG R	NRSA02J-103X	R8310
	4.7kΩ 1/10W J	MG R	NRSA02J-472X	R8311
	820Ω 1/10W J	MG R	NRSA02J-821X	R8312
	10kΩ 1/10W J	MG R	NRSA02J-103X	R8351
	5.6kΩ 1/10W J	MG R	NRSA02J-562X	R8352
	220Ω 1/10W J	MG R	NRSA02J-221X	R8353
	2.7kΩ 1/10W J	MG R	NRSA02J-272X	R8354
	1kΩ 1/10W J	MG R	NRSA02J-102X	R8355
	3.9kΩ 1/10W J	MG R	NRSA02J-392X	R8356

∆ Symb	ol No. Part N	o. Pa	rt Name	Descript	ion	Local	∆ Syml	bol No.	Part No.	Part Name	Des	cripti	on	Local
R	ESIST	OR					C	APA	CITOR	,				
R835 R835 R835 R865 R865 R865 R865	8 NRSA02 9 NRSA02 1 NRSA02 2 NRSA02 3 NRSA02 4 NRSA02	J-472X MG J-0R0X MG J-272X MG J-102X MG J-561X MG J-272X MG J-333X MG J-332X MG	R R R R R	4.7kΩ 1/10W 0.0Ω 1/10W 2.7kΩ 1/10W 1kΩ 1/10W 560Ω 1/10W 2.7kΩ 1/10W 33kΩ 1/10W 3.3kΩ 1/10W]	* * * * * * * *	C82	05 21-22 23 24-25 28	QETN1EM-476Z QENC1HM-474Z NCB21HK-103X QETN1EM-476Z NCB21HK-103X QETN1CM-107Z QETN1EM-476Z NCB21HK-103X	E CAP. BP E CAP. C CAP. C CAP. E CAP. E CAP. C CAP. C CAP. C CAP.	47µF 0.47µF 0.01µF 47µF 0.01µF 100µF 47µF 0.01µF		M K M K	* * * * * * * *
R865 R865 R866 R866 R866 R866 R866	8 NRVA02 0 NRSA02 1 NRSA02 2-65 NRSA02 6-67 NRSA02 8 NRSA02	J-562X MG	R R R R R	1.5kΩ 1/10W 15kΩ 1/10W 5.1kΩ 1/10W 47kΩ 1/10W 12kΩ 1/10W 5.6kΩ 1/10W 47kΩ 1/10W 220Ω 1/10W]]]]	* * * * * * * * * * * * * * * * * * * *	C82: C82: C82: C82: C82: C824 C824	32 34 35 36-39 40 41	QETN1EM-476Z NCB21HK-103X NCB21HK-103X NCC21HJ-181X NCB21HK-103X QETN1EM-476Z NCB21HK-103X QETN1EM-476Z	E CAP. C CAP. C CAP. C CAP. C CAP. C CAP. E CAP. E CAP. E CAP.	47µF 0.01µF 0.01µF 180pF 0.01µF 47µF 0.01µF 47µF	25V 50V 50V 50V 50V 25V 50V 25V	K K K M K	* * * * * * *
R867 R867 R867 R867 R868 R868 R880 R880	5-76 NRSA02 7 NRSA02 8-81 NRSA02 2 NRSA02 5-88 NRSA02 1 NRSA02	J-181X MG J-0R0X MG J-223X MG J-683X MG J-0R0X MG J-0R0X MG	R R R R R	82kΩ 1/10w 180Ω·1/10w 0.0Ω 1/10w 22kΩ 1/10w 68kΩ 1/10w 0.0Ω 1/10w 75Ω 1/10w) ; ; !	* * * * * * * * *	C825 C825 C825 C825 C825 C825 C826 C836	53 55-56 91-92 93 95 96	NCB21HK-103X QETN1EM-476Z QETN1EM-476Z QETN1CM-107Z NCB21HK-103X QETN1CM-107Z NCB21HK-103X QETN1EM-476Z	C CAP. E CAP. E CAP. E CAP. C CAP. C CAP. E CAP. E CAP. E CAP. E CAP.	0.01µF 47µF 47µF 100µF 0.01µF 100µF 0.01µF 47µF	25V 25V 16V 50V 16V 50V	K M M K M K M	* * * * * * *
R8804 R8801 R8801 R8804 R8811 R8811 R8811	5 NRSA02 7 NRSA02 8 NRSA02 9 NRSA02 1 NRSA02 2 NRSA02	J-750X MG J-221X MG J-563X MG J-750X MG	R R R R R	220Ω 1/10W 0.0Ω 1/10W 75Ω 1/10W 220Ω 1/10W 56kΩ 1/10W 75Ω 1/10W 220Ω 1/10W 82kΩ 1/10W]	* * * * * * * * * * * * * * * * * * *	C839 C839 C839 C839 C839 C869 C869	52 53 54 51 52	NDC21HJ-221X NDC21HJ-121X	E CAP. C CAP. C CAP. C CAP. C CAP. C CAP. E CAP. E CAP.	47µF 220pF 56pF 220pF 120pF 0.01µF 100µF 47µF	50V 50V 50V 50V 16V	j]]	* * * * * * *
R8814 R8815 R8815 R8815 R8816 R8820 R8820	5 NRSA02 5 NRSA02 7 NRSA02 8 NRSA02 9 NRSA02 0 NRSA02	J-102X MG J-750X MG J-221X MG J-823X MG J-102X MG	R R R R R	1kΩ 1/10W 82kΩ 1/10W 1kΩ 1/10W 75Ω 1/10W 220Ω 1/10W 82kΩ 1/10W 1kΩ 1/10W 82kΩ 1/10W)]]]	* * * * * * * * *	C865 C865 C865 C865 C865 C866 C866	55 56 57 58 59 50-61	QFLC1HJ-104Z QENC1HM-475Z QENC1HM-105Z QETN1HM-225Z NCB21HK-473X QETN1HM-474Z QFLC1HJ-104Z QBTC1CK-335Z	M CAP. BP E CAP. BP E CAP. E CAP. C CAP. E CAP. B CAP. TAN.CAP.	0.1µF 4.7µF 1µF 2.2µF 0.047µF 0.47µF 0.1µF 3.3µF	50V 50V 50V 50V 50V 50V	J M M K M J K	* * * * * *
R8827 R8831 R8835	L-33 NRSA02 NRSA02	J-0R0X MG J-102X MG J-0R0X MG	R R	1kΩ 1/10W 0.0Ω 1/10W 1kΩ 1/10W 0.0Ω 1/10W	J	* * * *	C866 C866	54 55-66 57 58 59-70 11		E CAP. TAN.CAP. E CAP. E CAP. B CAP. BP E CAP. C CAP. C CAP.	1μF 10μF 1μF 33μF 1μF 2.2μF 2200pF	16V 50V 50V 50V 50V 50V	M M	* * * * * * *
C8001 C8004 C8005 C8006 C8007 C8008 C8101 C8105	QETN1C QETN1H QETN1H QETN1H QETN1H QETN1E QETN1E	M-107Z E C M-106Z E C K-103X C C M-106Z E C M-476Z E C K-103X C C	CAP.	4.7µF 50V 100µF 16V 10µF 50V 0.01µF 50V 10µF 50V 47µF 25V 0.01µF 50V 100µF 16V	M K M M	* * * * * * * *	C867 C867 C867 C867 C867 C867	73 74 75 76 77 79	QFLC1HJ-104Z QETN1HM-225Z NCB21HK-222X QFLC1HJ-104Z NCB21HK-223X QETN1HM-105Z	M CAP. E CAP. C CAP. M CAP.	0.1μF 2.2μF 2200pF 0.1μF 0.022μF 1μF 47μF	50V 50V 50V 50V 50V 50V 25V	J K J M	* * * * * * * *
C8107 C8108 C8109 C8110 C8112 C8113 C8115	GFV71H GRAPH GFV71H GFV71H GFV71H GFV71H GFV71H GFV71H GFV71H GFV71H	J-474Z MF M-107Z E C K-222X C C K-103X C C J-224Z MF J-101X C C	AP. AP. CAP. CAP.	10µF 50V 0.47µF 50V 100µF 16V 2200pF 50V 0.01µF 50V 0.22µF 50V 100pF 50V 2200pF 50V	M K K J	* * * * * * *	C880 C880 C880 C882 C883 C883	14-05 16 17-08 11-31 15-36	QETN1HM-105Z QETN1HM-106Z QETN1HM-105Z NCB21HK-103X NCB21HK-103X QETN1HM-106Z	E CAP. E CAP. E CAP. C CAP. C CAP. C CAP. E CAP. E CAP. E CAP.		50V 50V 50V 50V 50V 50V	M M M K K M	* * * * * * * *
C8118 C8119 C8120 C8201	QETN1H NCB21H	M-474Z E C K-103X C C	AP.	47μF 25V).47μF 50V).01μF 50V 100μF 16V	M K	* * * * *	C884 C884	0	NCB21HK-103X QETN1HM-106Z	C CAP. E CAP. C CAP.	0.01μF	50V 50V	K M	* * *

Δ	Symbol No.	Part No.	Part Name	Description	Local
	TRAN	SFORME	ER .	, .	
	T8201 T8251 T8301	CE42697-001 CE42697-001 CE42697-001	LOWPASS FILTER LOWPASS FILTER LOWPASS FILTER		* *
_	COIL				
	L8001 L8101 L8102 L8103 L8104 L8222-24 L8251 L8351	QQL03BJ-150Z QQL2014-R22 QQL03BJ-5R6Z CE42452-003 QQL39BK-220Z QQL03BJ-220Z QQL03BJ-330Z	COIL PEAKING COIL COIL COIL COIL COIL COIL COIL COIL	15µН 0.22µН 5.6µН 22µН 22µН 33µН	* * * * * * *
_	DIOD	Æ			
	D8801-08	MTZJ9.1C-T2	ZENER DIODE		*
_	TRAN	SISTOR	₹ .		
	Q8101 Q8111 Q8201-03 Q8251 Q8252 Q8253-54 Q8301 Q8302 Q8303-04	2SC5083/L-P/-T 2SA1037AK/QR/-X 2SC2412K/QR/-X 2SC2412K/QR/-X 2SA1037AK/QR/-X 2SC2412K/QR/-X 2SA1037AK/QR/-X 2SC2412K/QR/-X 2SC2412K/QR/-X	SI. TRANSISTOR		* * * * * * * * *
	Q8351-52 Q8651-54	2SC2412K/QR/-X DTC323TK-X	SI.TRANSISTOR DIGI.TRANSISTOR		*
_	IC				
	IC8001 IC8101 IC8201 IC8291 IC8292 IC8651 IC8661 IC8801	BA17805T LA7583 TC9090AN AN78N05 BA17809T UPC1851ACU BA15218N CXA1545AS	I.C(MONO-ANA) I.C.(DIGI-MOS) I.C.(M) I.C.(MONO-ANA) I.C.(MONO-ANA) I.C.(MONO-ANA) I.C.(MONO-ANA) I.C.(MONO-ANA)		* * * * * *
_	ОТНЕ	RS			
Δ	CF8102 CF8103 J8801 J8802 SF8101 TU8001	CM36337-A01-H QRE141J-OROY FCR5.71M25F3 CE41505-001 QMCC004-C01 QNN0099-001 QAX0324-002 CEEM270-A02	SHIELD COVER C R 0 CER.RESONATOR CERAMIC FILTER MINI DIN JACK PIN JACK SAW FILTER TUNER	.0Ω 1/4W J	* * * * *

FRONT AV JACK P.W. BOARD ASS'Y (SGB-8303A-M2)

Δ	Symbol No.	Part No.	Part Name	Description	Local
	RESI	STOR			
	R0101	NRSA02J-750X	MG R	75Ω 1/10W J	*
_	OTUE	- D 6			
	ОТНЕ	: KS			
	J0001	CEMN058-001	PIN JACK		*

LINE FILTER P.W. BOARD ASS'Y (SGB-9104A-M2)

Δ	Symbol No.	Part No.	Part Name	Description	Local
	CAPA	CITOR			
Δ Δ Δ	C9901 C9902 C9903	QFZ9040-104 QFZ9040-473 QFZ9040-104	MF CAP. MF CAP. MF CAP.	0.1μFAC400V M 0.047μFAC400V M 0.1μFAC400V M	*
_	ОТНЕ	RS			
∆ ∆ ∆	F9901 FC9901-02 LF9901 LF9902 VA9901	QMF51E2-3R15J4 CEMG002-001Z CELF001-001J1 CE41890-003J1 ERZV10V621CS	FUSE FUSE CLIP LINE FILTER LINE FILTER VARISTOR	3.15 A	* * * *

PIP P.W. BOARD ASS'Y (SGB0P002A-M2)

Loca	on	Descripti	rt Name	Part No. P.	Symbol No.
				STOR	RESI
*	J	1kΩ 1/10W	R	NRSAO2J-102X MI	R0101
*	J	2.2kΩ 1/10W	R	NRSA02J-222X M	R0102
*	J	0.0Ω 1/10W	R	NRSA02J-OROX M	R0104
*	j	100kΩ 1/10W	R	NRSA02J-104X M	R0105
*	j	0.0Ω 1/10W	R	NRSA02J-OROX M	R0106-07
*	j	22kΩ 1/10W	R	NRSA02J-223X M	R0108
*	Ĵ	27kΩ 1/10W	R ·	NRSA02J-273X MG	R0109
1	Ĵ	220kΩ 1/10W	R	NRSA02J-224X MG	R0110
	J	0.0Ω 1/10W	R	NRSA02J-OROX MO	R0112
*	J	10kΩ 1/10W	R	NRSA02J-103X MG	R0113-14
4	j	8.2kΩ 1/10W	R	NRSA02J-822X MG	R0115
*	j	10kΩ 1/10W	R	NRSA02J-103X MC	R0117
*	j	0.0Ω 1/10W	R	NRSA02J-OROX MO	R0118
*	j	18kΩ 1/10W	R	NRSA02J-183X MG	R0120
*	j	22kΩ 1/10W	R	NRSA02J-223X MG	R0121
*	Ĵ	1kΩ 1/10W	R	NRSA02J-102X MC	R0152-53
*	J	0.0Ω 1/10W	R	NRSA02J-OROX MO	R0161
*	1	. 22kΩ 1/10W	R	NRSA02J-223X MC	R0162
*	j	2.2kΩ 1/10W	R	NRSA02J-222X MC	R0163
*	j	12kΩ 1/10W	R	NRSA02J-123X MC	R0164
*	Ĭ	0.0Ω 1/10W	R	NRSA02J-OROX MC	R0166-67
*	j	33kΩ 1/10W	R	NRSA02J-333X MC	R0169
*	j	1.5kΩ 1/10W		NRSAO2J-152X MC	R0171
*	j	0.0Ω 1/10W		NRSA02J-OROX MC	R0172
*	J	2.2kΩ 1/10W	R	NRSA02J-222X MC	R0173
*	j	1.5kΩ 1/10W		NRSA02J-152X MC	R0174

Δ	Symbol No.	Part No.	Part Name	Description	Local
	RESI	STOR			
	R0175	NRSA02J-681X	MG R	680Ω 1/10W J	*
	R0176	NRSA02J-562X	MG R	5.6kΩ 1/10W J	*
	R0177	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R0178	NRSA02J-682X	MG R	6.8kΩ 1/10W J	*
	R0179 R0180	NRSA02J-101X NRSA02J-682X	MG R MG R	100Ω 1/10W J 6.8kΩ 1/10W J	*
	R0181	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R0182	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	D0101 01	NRSAO2J-181X	WC D	1000 1/100	
	R0201-02 R0203	NRSA02J-181X	MG R MG R	180Ω 1/10W J 0.0Ω 1/10W J	*
	R0205	NRSA02J-122X	MG R	1.2kΩ 1/10W J	*
	R0206	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R0207	NRSA02J-332X	MG R	3.3kΩ 1/10W J	*
	R0208 R0209	NRSA02J-105X	MG R MG R	1MΩ 1/10W J 10kΩ 1/10W J	*
	R0210	NRSA02J-103X NRSA02J-471X	MG R	10kΩ 1/10W J 470Ω 1/10W J	*
	R0211	NRSA02J-153X	MG R	15kΩ 1/10W J	*
	R0212 R0213	NRSAO2J-122X NRSAO2J-101X	MG R MG R	1.2kΩ 1/10W J 100Ω 1/10W J	*
	R0213	NRSA02J-152X	MG R	1.5kΩ 1/10W J	*
	R0215	NRSA02J-105X	MG R	1MΩ 1/10W J	*
	R0216	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R0217-18	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R0220-22	NRSA02J-152X	MG R	1.5kΩ 1/10W J	*
	R0223	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R0224	NRSA02J-183X	MG R	18kΩ 1/10W J	*
	R0226	NRSA02J-272X	MG R	2.7kΩ 1/10W J	*
	R0227-30 R0231-32	NRSAO2J-123X NRSAO2J-222X	MG R MG R	12kΩ 1/10W J 2.2kΩ 1/10W J	* .
	R0233	NRSA02J-183X	MG R	18kΩ 1/10W J	*
_					
	CAPA	CITOR			
	R0235	NRSA02J-272X	MG R	2.7kΩ 1/10W J	*
	C0101	NCF21HZ-103X	C CAP.	0.01µF 50V Z	*
	C0102	QETN1CM-1072	E CAP.	100μF 16V M	*
	C0103-05	NCF21HZ-103X	C CAP.	0.01μF 50V Z	*
	C0106 C0110	QETN1EM-476Z	E CAP. E CAP.	47μF 25V M 4.7μF 50V M	*
	C0111	QETN1HM-475Z NCF21HZ-103X	C CAP.	4.7μF 50V M -0.01μF 50V Z	*
	C0112	QETN1CM-107Z	E CAP.	100μF 16V M	*
	C0113 10	NCC24U2 402V	5 512		
	C0113-18 C0119	NCF21HZ-103X QETN1HM-475Z	C CAP. E CAP.	0.01μF 50V Z 4.7μF 50V M	*
	C0110	NCB21HK-103X	C CAP.	0.01μF 50V K	*
	C0121	QETN1HM-225Z	E CAP.	2.2μF 50V M	*
	C0122-24	NCF21HZ-103X	C CAP.	0.01µF 50V Z	*
	C0125 C0126	QETN1HM-476Z	E CAP.	47μF 50V M	*
	C0127	NCF21HZ-103X QETN1HM-225Z	C CAP. E CAP.	0.01μF 50V Z 2.2μF 50V M	*
		QUINZINI ZZZZ		2.2μ. 301 11	·
	C0128	NDC21HJ-120X	C CAP.	12pF 50V J	*
	C0129 C0130	NCF21HZ-103X	C CAP.	0.01µF 50V Z	*
	C0131	QETN1CM-107Z NCB21HK-103X	E CAP. C CAP.	100μF 16V M 0.01μF 50V K	*
	C0132	QETN1HM-475Z	E CAP.	4.7μF 50V M	*
	C0133	QFLC1HJ-104Z	M CAP.	0.1μF 50V J	*
	C0135	QETN1HM-105Z	E CAP.	1μF 50V M	*
	C0136	NCB21HK-103X	C CAP.	0.01μF 50V K	*
	C0137	QETN1HM-105Z	E CAP.	1μF 50V M	*
	C0138	QFLC1HJ-104Z	M CAP.	0.1μF 50V J	*
	C0151	QETN1EM-476Z	E CAP.	47μF 25V M	*.
	C0152-53 C0154	NCF21HZ-103X Qetn1em-476Z	C CAP. E CAP.	0.01μF 50V Z 47μF 25V M	*
	C0156	NCB21HK-473X	C CAP.	0.047μF 50V K	*
	C0161	NDC21HJ-221X	C CAP.	220pF 50V J	*
	C0162	QFN31HJ-102Z	M CAP.	1000pF 50V J	* -
	C0163	NCF21HZ-103X	C CAP.	0.01µF 50V Z	*
	C0173	NDC21HJ-220X	C CAP.	22pF 50V J	*
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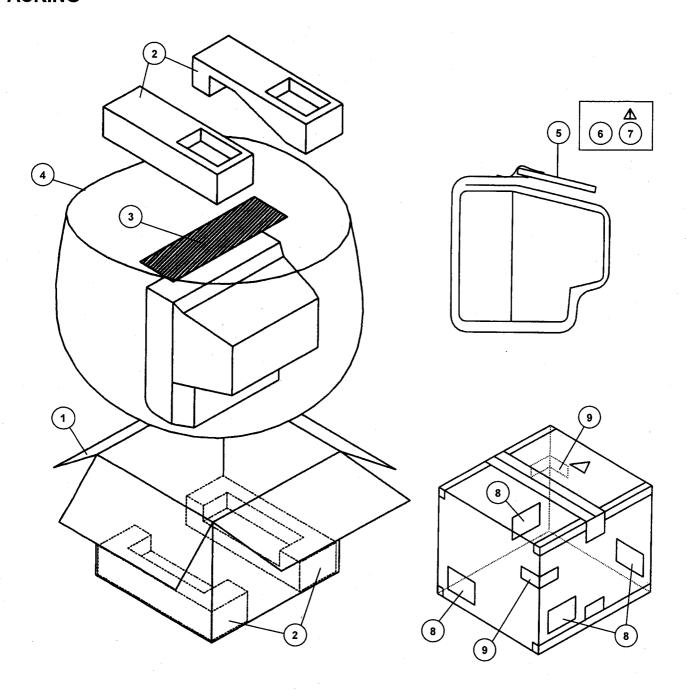
Δ	Symbol No.	Part No.	Part Name	Des	cription	Local
	CAPA	CITOR				
	C0174 C0174 C0175-77	NDC21HJ-101X NDC21HJ-101X QETN1HM-475Z	C CAP. C CAP. E CAP. C CAP.	100pF 100pF 4.7μF	50V J 50V J 50V M	* * *
	C0201 - C0202	NCF21HZ-103X QETN1EM-476Z	E CAP.	0.01μF 47μF	50V Z 25V M	*
	C0203	NCF21HZ-103X	C CAP.	0.01μF	50V Z	*
	C0204-05 C0206	QETN1HM-106Z NCF21HZ-103X	E CAP. C CAP.	10μF 0.01μF	50V M 50V Z	*
	C0210-11 C0212	NCF21HZ-103X Qetn1HM-225Z	C CAP. E CAP.	0.01μF 2.2μF	50V Z 50V M	*
	C0213	NCB21HK-103X	C CAP.	0.01μF	50V K	*
	C0214 C0215	QETN1HM-225Z NCB21HK-103X	E CAP. C CAP.	2.2µF 0.01µF	50V M 50V K	*
	C0216	NCB21HK-103X	C CAP.	1000pF	50V K	*
	C0219 C0220	QETN1HM-106Z NCF21HZ-103X	E CAP. C CAP.	10μF 0.01μF	50V M 50V Z	*
	C0221-26	NDC21HJ-101X	C CAP. E CAP.	100pF	50V J	*
	C0227 C0228	QETN1EM-476Z NCF21HZ-103X	C CAP.	47μF 0.01μF	25V M 50V Z	*
	C0229-30	NDC21HJ-101X	C CAP.	100pF	50V J	*
	C0231-39 C0241	NDC21HJ-471X NCF21HZ-103X	C CAP. C CAP.	470pF 0.01µF	50V J 50V Z	*
	C0242	QETN1EM-476Z	E CAP.	47μF	25V M	*
	C0243	NCF21HZ-103X	C CAP.	0.01μF	50V Z	*
	C0244-47 C0248	NDC21HJ-470X OETN1HM-105Z	C CAP. E CAP.	47pF 1μF	50V J 50V M	*
	C0249	NCF21HZ-103X	C CAP.	0.01μF	50V Z	*
	C0250-51	NDC21HJ-681X	C CAP.	680pF	50V J	*
	C0252 C0253-54	NDC21HJ-101X NCF21HZ-103X	C CAP. C CAP.	100pF 0.01μF	50V J 50V Z	*
	C0255 C0256-58	QETN1EM-476Z QENC1CM-106Z	E CAP. BP E CAP.	47μF 10μF	25V M 16V M	*
	C0259	QETN1EM-476Z	E CAP.	47µF	25V M	*
	C0260	QENC1HM-475Z	BP E CAP.	4.7μF	50V M	*
	C0261 C0262	QETN1EM-476Z Qenc1HM-475Z	E CAP. BP E CAP.	47μF 4.7μF	25V M 50V M	*
	C0263-64	QETN1HM-475Z	E CAP.	4.7μF	50V M	*
*.	C0265 C0266	QFLC1HJ-333Z QENC1HM-475Z	M CAP. BP E CAP.	0.033μF 4.7μF	50V J 50V M	*
	C0200	QENCINI-4732	DI E CAI.	4.7μι	JUY 11	Ť
	COIL					
	L0101-05	QQL03BJ-4R7Z	COIL		4.7μH	. *
	L0172 L0173	QQL03BJ-820Z QQL03BJ-150Z	COIL		82µH 15µH	*
		4420000 2002			20411	
_	DIOD	E				
	D0201	1SS133-T2	SI.DIODE			*
	TRAN	SISTOR	3			
	00151	2SC2412K/QR/-X	SI TRANSISTOR			*
	Q0161 Q0172	2SC2412K/QR/-X 2SC2412K/QR/-X	SI.TRANSISTOR SI.TRANSISTOR			*
	Q0173-75	2SA1037AK/QR/-X	SI.TRANSISTOR			*
	Q0202-06	2SC2412K/QR/-X	SI.TRANSISTOR			*
	IC					
	IC0101	TB1230N	I.C.(DIGI-OTHER)			
	IC0102	TC4538BP/N/	IC			
	IC0151 IC0152	BA17805T BA17809T	I.C.(MONO-ANA) I.C.(MONO-ANA)			*
	IC0201	LC74411N	I.C.(DIGI-MOS)			*
	IC0202 IC0203-04	MN1381/Q/-T BA7655AF-X	I.C. (MONO-ANA)	•		*
	100203-04	V* 140 C0 140	I.C.(MONO-ANA)			•
_	<u> </u>					

⚠	Symbol No.	Part No.	Part Name	Description	Local
	ОТНЕ	ERS			
	CN0003	QGB1505K1-35	PLUG		*
	K0201	CE42136-A01Y	BEADS CORE		
	W0019	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	W0022-24	NRSA02J-OROX	MG R	0.0Ω 1/10W J	. *
	W0026	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	W0028	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	W0032	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	W0035-36	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	W0043-44	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	W0046	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	W0051-55	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	W0063-65	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	W0067-72	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	W0074	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	W0077-82	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	W0084	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	W0086	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	W0089-90	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	W0094-95	NRSA02J-OROX	√ MG R	0.0Ω 1/10W J	*
	X0101	QAX0305-001Z	CRYSTAL		*
	Y0102	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	Y0104	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	Y0201	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*

SIDE PIN P.W. BOARD ASS'Y (SGB-8404A-M2)

			-	•	
Δ	Symbol No.	Part No.	Part Name	Description	Local
	RESI	STOR			
	R8461	NRSA02J-102X	MG R	1kΩ 1/10W 🗦	*
	R8462	NRSA02J-562X	MG R	5.6kΩ 1/10W J	*
	R8463-64	NRSA02J-221X	MG R	220Ω 1/10W J	*
	R8465	NRSA02J-331X	MG R	330Ω 1/10W J	*
٨	R8466	ORJ146J-2R2X	C R	2.2Ω 1/4W J	*
ш	R8467	NRSA02J-333X	MG R	33kΩ 1/10W J	*
	R8468	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R8469	NRSA02J-222X	MG R	2.2kΩ 1/10W J	*
	R8470	NRSA02J-472X	MG R	4.7kΩ 1/10W J	*
	R8471	NRSA02J-102X	MG R	- 1kΩ 1/10W J	*
	R8472-73	NRSA02J-333X	MG R	33kΩ 1/10W J	*
	R8474	QRA14CF-2491Y	MF R	2.49kΩ 1/4W F	*
	R8475	NRSA02J-OROX	MG R	0.0Ω 1/10W J	. *
	R8477	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	R8478	NRSA02J-221X	MG R	220Ω 1/10W J	*
	10470		no it	22032 1/104 5	
_	CAPA	CITOR		***************************************	
	C8451	NDC21HJ-680X	C CAP.	68pF 50V J	*
	C8452	NDC21HJ-121X	C CAP		*
	C8462	QFP31HG-333	PP CAP.	0.033µF 50V G	*
	C8463	QEM61EK-225Z	E CAP.	2.2μF 25V K	*
	C8464	QFV71HJ-184Z	MF CAP.	0.18μF 50V J	*
	C8465	QFLC1HJ-823Z	M CAP,	0.082μF 50V J	*
	C8466	QETN1CM-108Z	E CAP.	1000μF 16V M	*
	C8467	QFLC1HJ-104Z	M CAP.	0. 1 μF 5 0V J	*
_	DIOD	E			
	D8461	MTZJ3.9B-T2	ZENER DIODE		*
	D8462	MTZJ12C-T2	ZENER DIODE		*
	00402	11123120-12	ZENER DIODE		4
	TRAN	SISTO	₹		
	08461	2SC2412K/QR/-X	SI.TRANSISTOR		*
	08463-64	25C2412K/QR/-X	SI.TRANSISTOR		*
	+U-CUPUJ	23C2412N/QN/-X	31.11Mi31310N		7
	IC8461	TA8859CP	I.C.(MONO-ANA)		
	100401	180033CF	I.C. (HUNU-ANA)		
	ОТНЕ	RS	·		
	CN8004	QGB2501K2-10	JL PLUG		*
	W8001	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	Y8001	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*
	10001	MINJAULJ - UNUA	no n	0.0% 1/10M J	•

PACKING



PACKING PARTS LIST

⚠	Ref.No.	Part No.	Part Name	Description	Local
	1	CP11499-034-A	PACKING CASE		*
	2	CP11387-00D-A	PACKING CUSHION	4pcs in 1set	*
	3	CP30055-A02-A	TOP COVER		*
	4	CP30056-004-A	POLY BAG		*
	5	QPA02503505	POLY BAG		*
	6	RM-C735-1A	REMOCON UNIT		*
Δ	7	LCT0646-001A-A	INST BOOK		*
	8	CM36654-004-A	INCH SIZE LABEL	4pcs in 1set	*
	9	CM36616-001-A	CORNER LABEL	2pcs in 1set	*



VICTOR COMPANY OF JAPAN, LIMITED
TELEVISION RECEIVER DIVISION 1106 Heta, Iwai-city, Ibaraki-prefecture, 306-0698, Japan

AV-T3885(BR) STANDARD CIRCUIT DIAGRAM

■ NOTE ON USING CIRCUIT DIAGRAMS

1. SAFETY

The components identified by the ▲ symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

2. SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

(1)Input signal

:PAL Colour bar signal

positions (2)Setting each knob/button and

variable resistor

:Original setting position

when shipped

(3)Internal resistance of tester

:DC 20k Ω/V

(4)Oscilloscope sweeping time

⇒ 20µS/div :V ⇒ 5mS/div

:Others => Sweeping time is

specified

(5)Voltage values

:All DC voltage values

* Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3.INDICATION OF PARTS SYMBOL [EXAMPLE]

●In the PW board

:R1209→R209

4.INDICATIONS ON THE CIRCUIT DIAGRAM

(1)Resistors

●Resistance value

No unit

 $[\Omega]$:

K

:[KΩ] :[MΩ]

Rated allowable power

No indication

:1/10[W]

Others

:As specified

Туре

No indication

:Carbon resistor

OMR

:Oxide metal film resistor

MFR

:Metal film resistor

MPR

:Metal plate resistor

UNFR

:Uninflammable resistor

:Fusible resistor

*Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2)Capacitors

Capacitance value

1 or higher

:[pF] :[µF]

less than 1

Withstand voltage No indication

:DC50[V]

AC indicated

:AC withstand voltage [V]

Others

:DC withstand voltage [V]

*Electrolytic Capacitors

47/50[Example]:Capacitance value [µF]/withstand voltage[V]

Type No indication :Ceramic capacitor :Mylar capacitor ММ :Metalized mylar capacitor PP :Polypropylene capacitor MPP :Metalized polypropylene capacitor

MF :Metalized film capacitor :Thin film capacitor TF

BP :Bipolar electrolytic capacitor :Tantalum capacitor

TAN (3)Coils

No unit

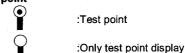
:[µH]: :As specified Others

(4) Power Supply

:B2(12V) :9V

*Respective voltage values are indicated

(5)Test point



(6)Connecting method



(7)Ground symbol

:LIVE side ground

:ISOLATED(NEUTRAL) side ground

:EARTH ground :DIGITAL ground

5.NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE: (1) side GND and the ISOLATED(NEUTRAL): (,) side GND. Therefore, care must be taken for the following points.

(1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.

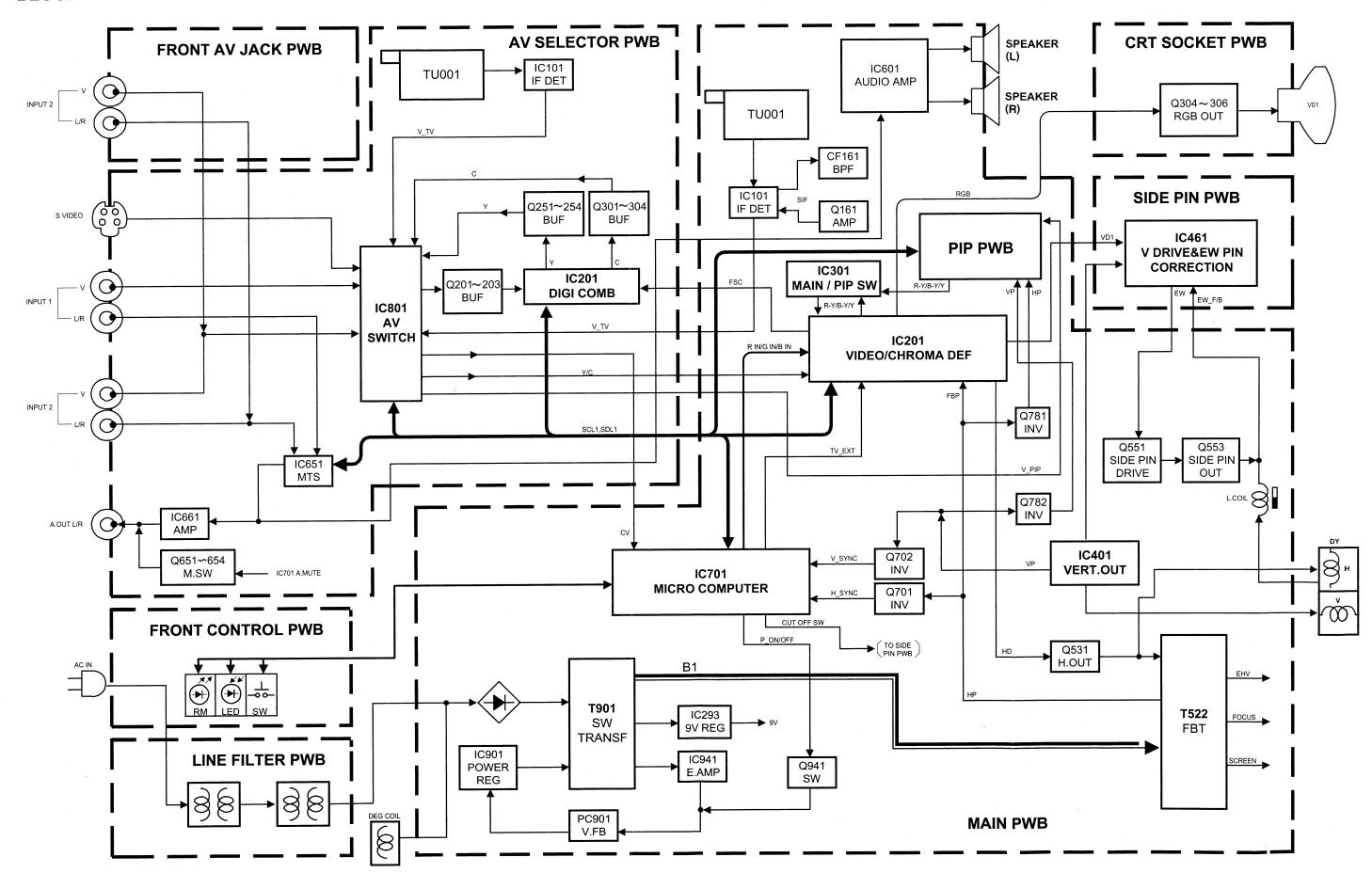
(2)Do not short between the LIVE side ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected, a fuse or any parts will be broken.

Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

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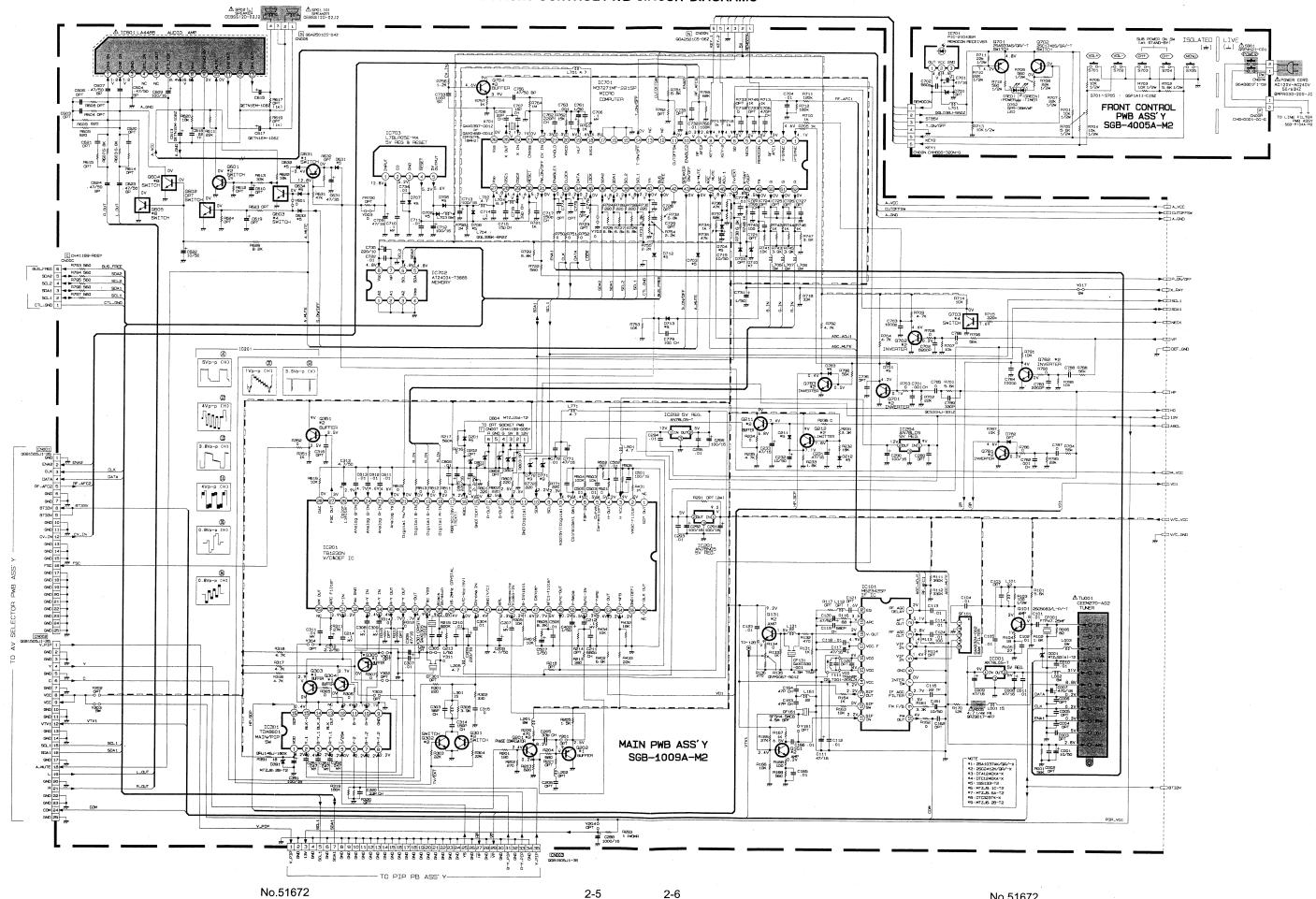
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				B E
IC				B E
IC BOTTOM VIEW		FRONT VIEW		TOP VIEW
		FRONT VIEW		TOP VIEW
		FRONT VIEW		TOP VIEW
	0	FRONT VIEW		TOP VIEW
BOTTOM VIEW OUT E	0	FRONT VIEW	· · · · · · · · · · · · · · · · · · ·	TOP VIEW
BOTTOM VIEW * OUT	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	FRONT VIEW	○	TOP VIEW
BOTTOM VIEW OUT E	O IN E OUT	FRONT VIEW	\(\rightarrow\) \(\forall \rightarrow\) \(\forall \ri	TOP VIEW
BOTTOM VIEW OUT E IN	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	FRONT VIEW	0 00000000 1 N	TOP VIEW
BOTTOM VIEW OUT E	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	TOP VIEW
BOTTOM VIEW OUT E IN	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	FRONT VIEW	0 0 0 1 N	TOP VIEW

BLOCK DIAGRAM

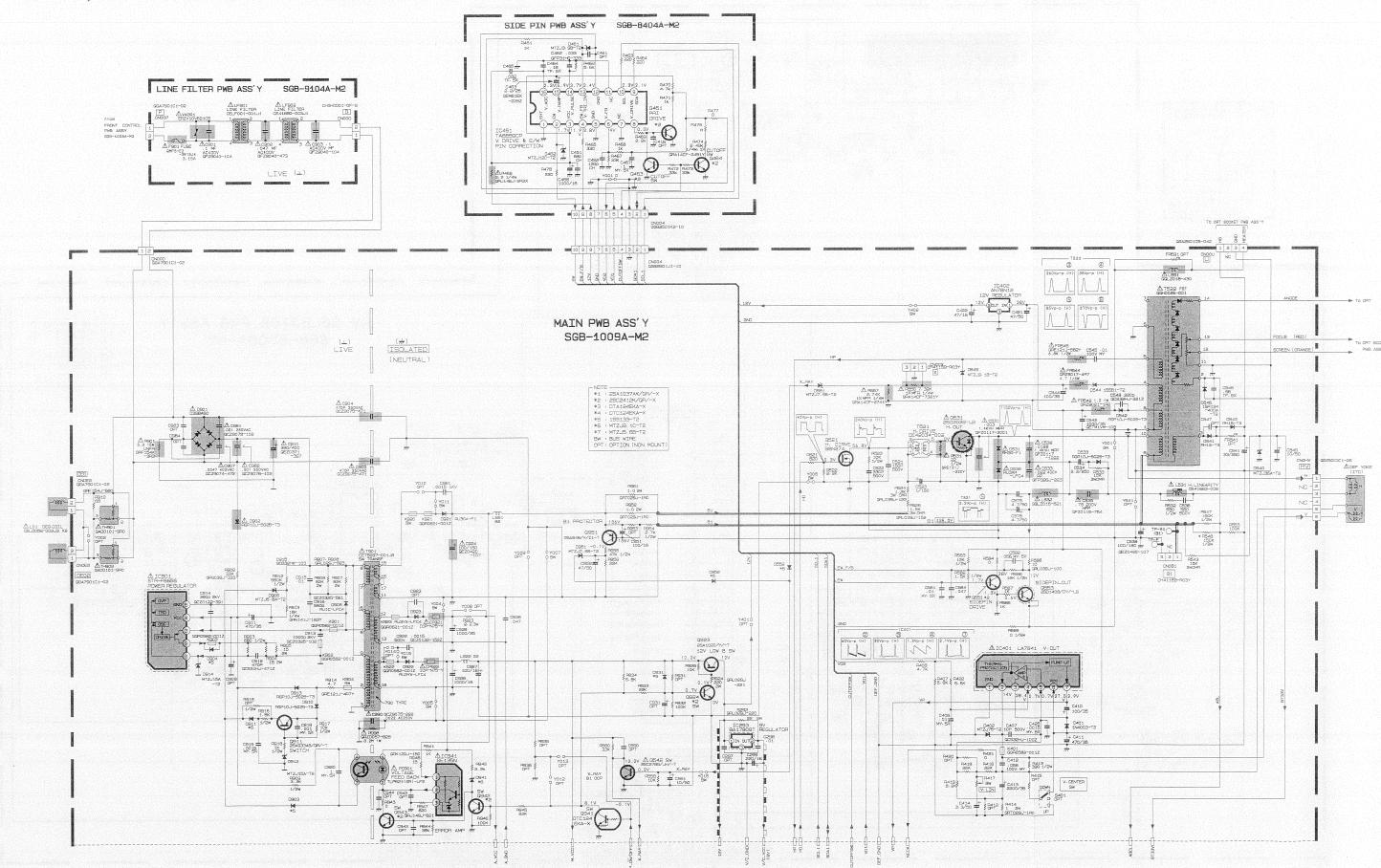


2-4

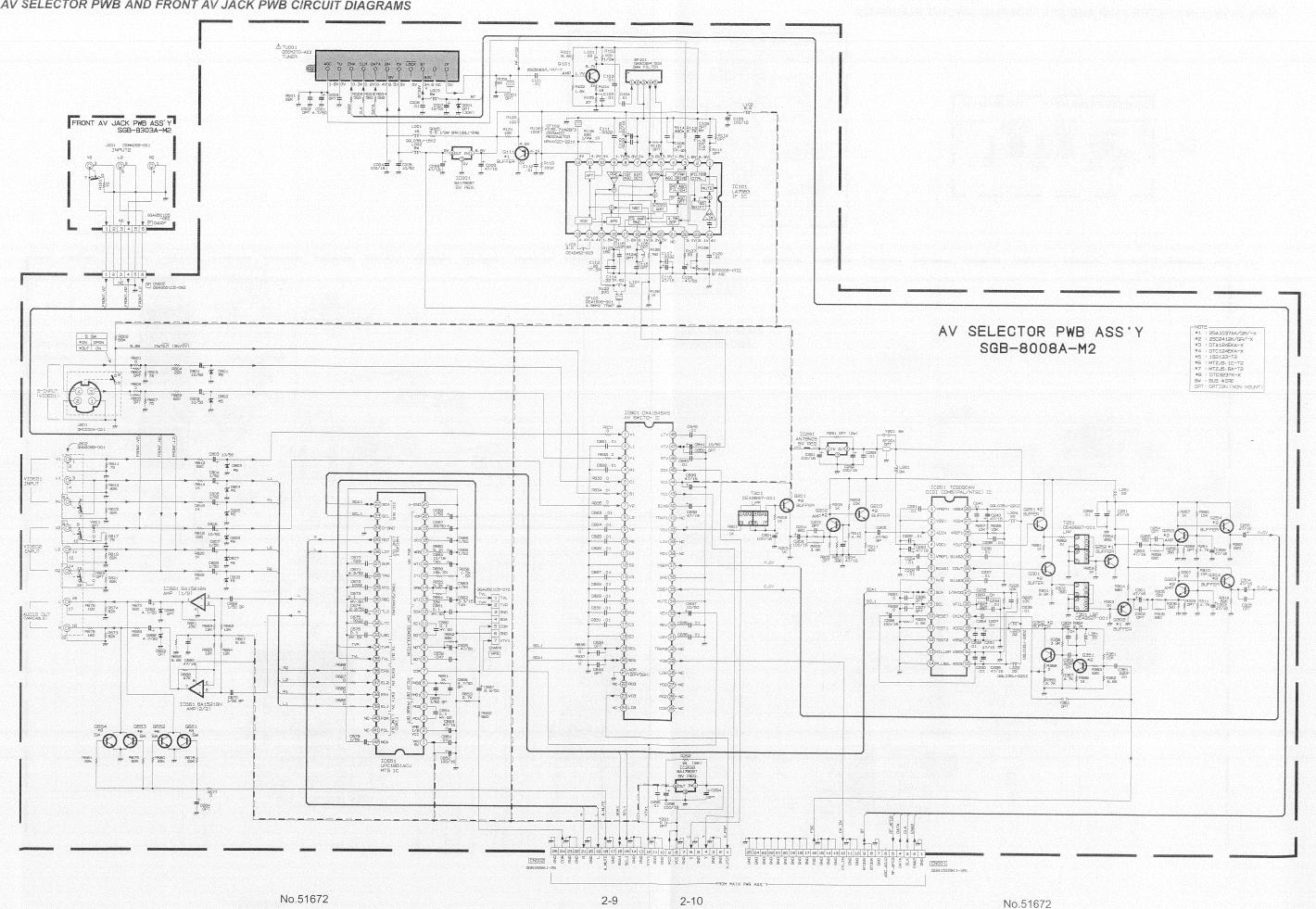
CIRCUIT DIAGRAMS AND PATTERN DIAGRAMS MAIN PWB AND FRONT CONTROL PWB CIRCUIT DIAGRAMS



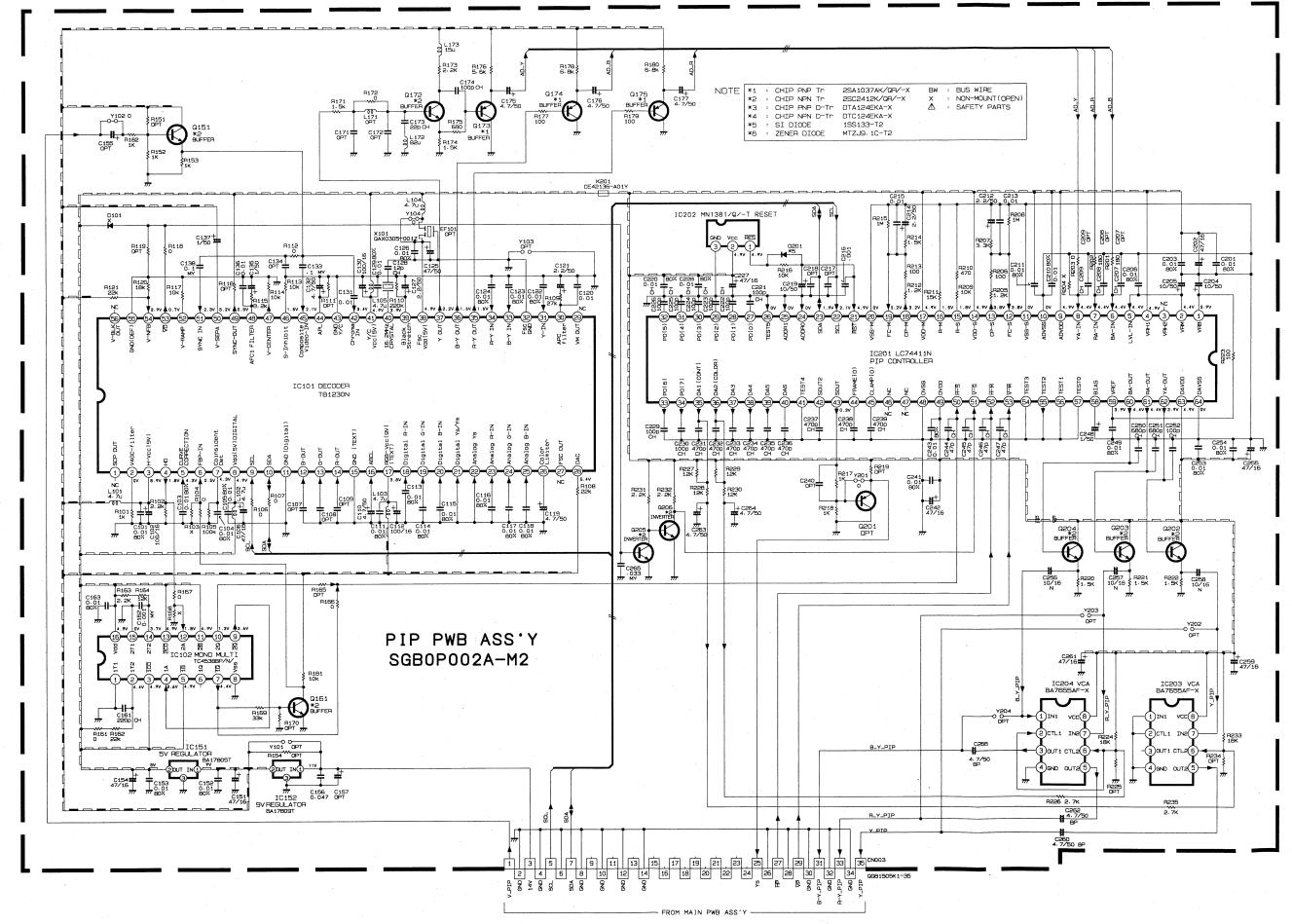
MAIN PWB, LINE FILTER PWB AND SIDE PIN PWB CIRCUIT DIAGRAMS

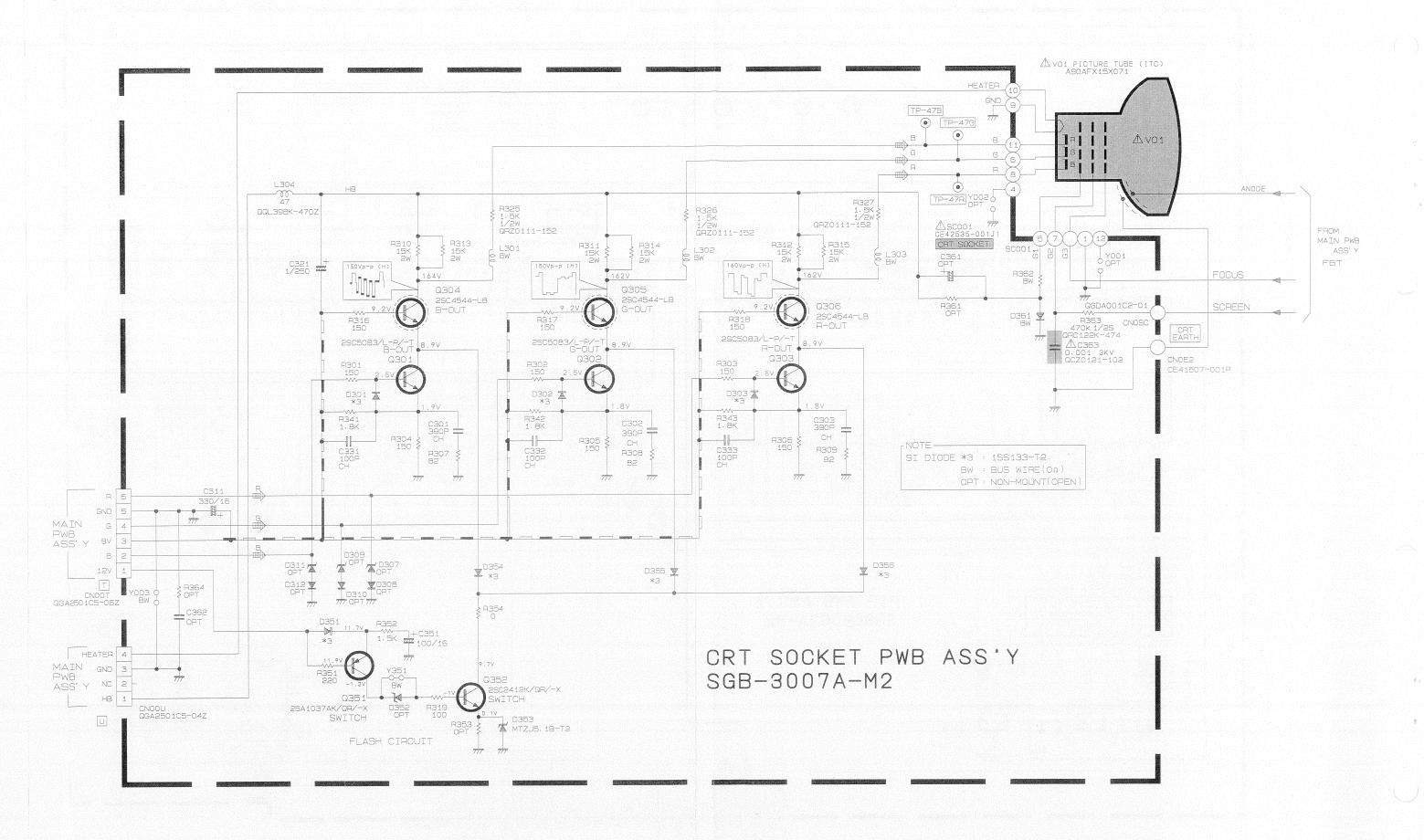


AV SELECTOR PWB AND FRONT AV JACK PWB CIRCUIT DIAGRAMS

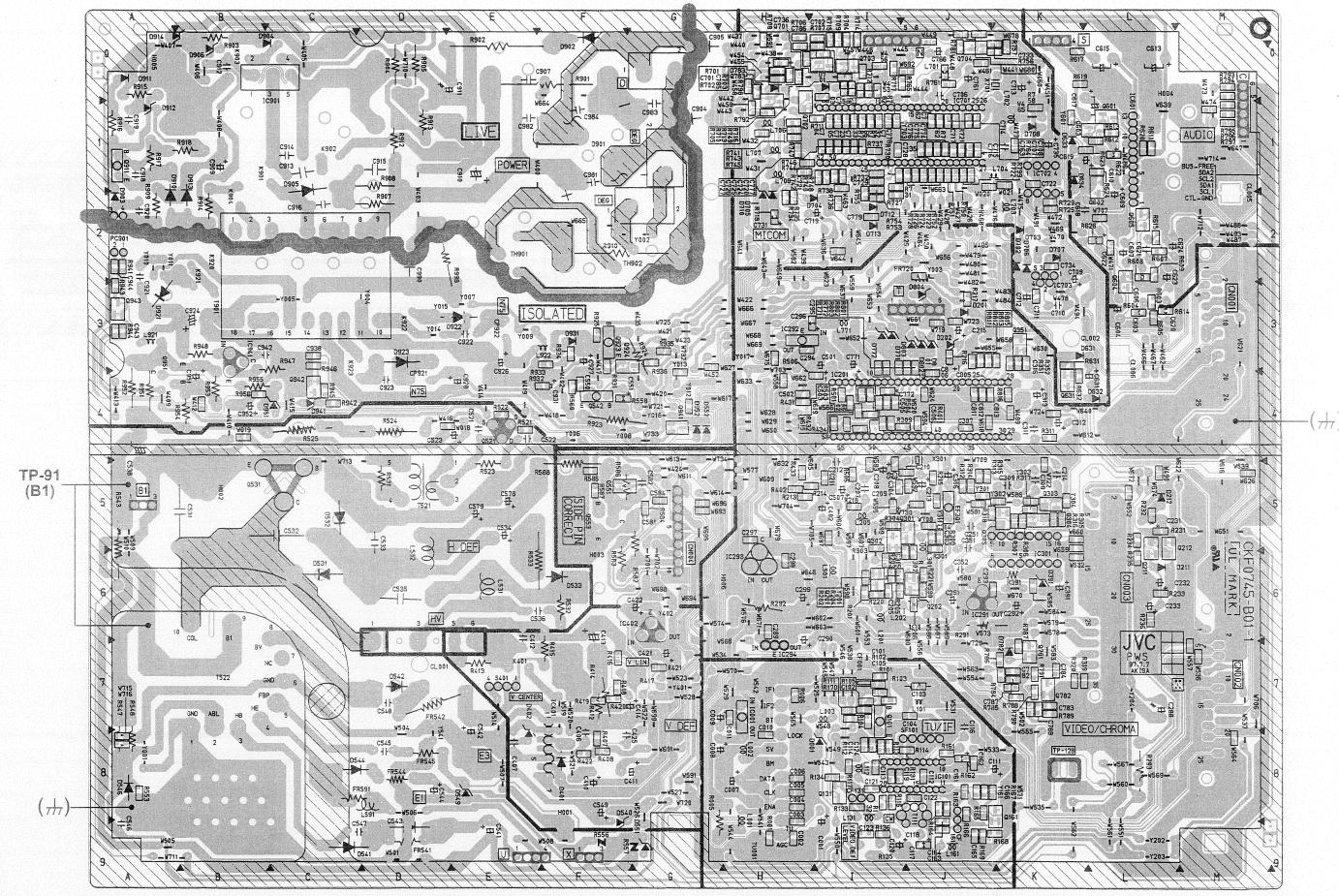


PIP PWB CIRCUIT DIAGRAM



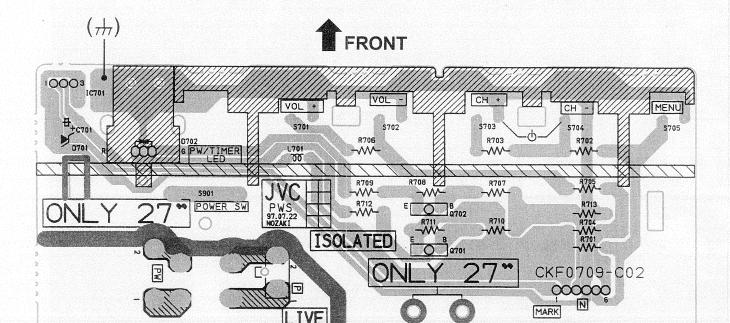


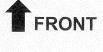


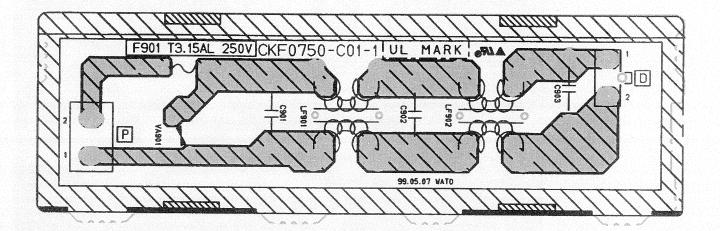


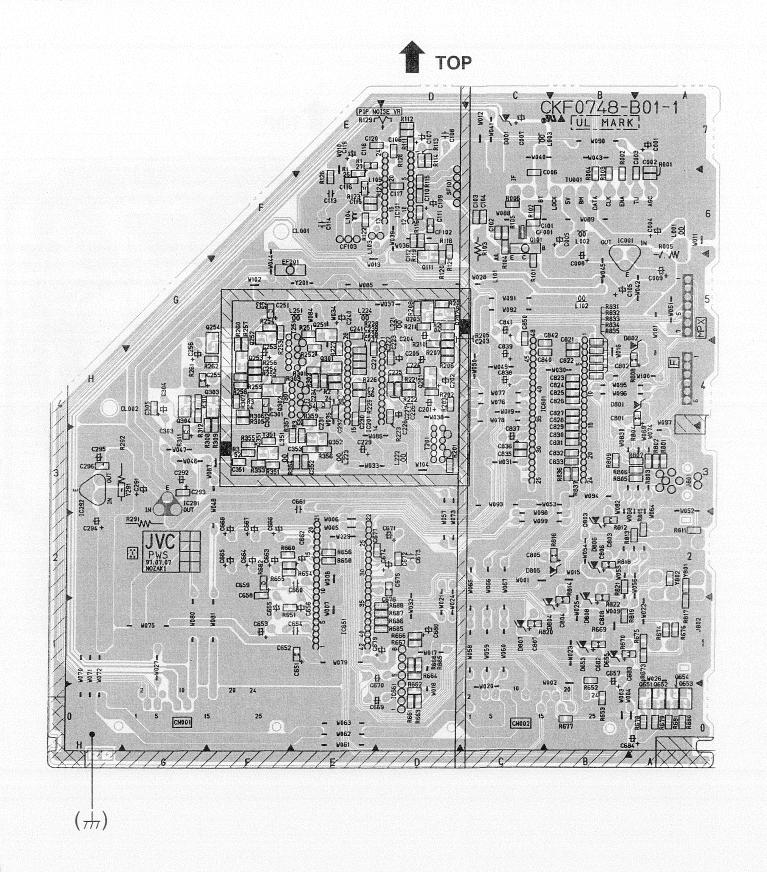
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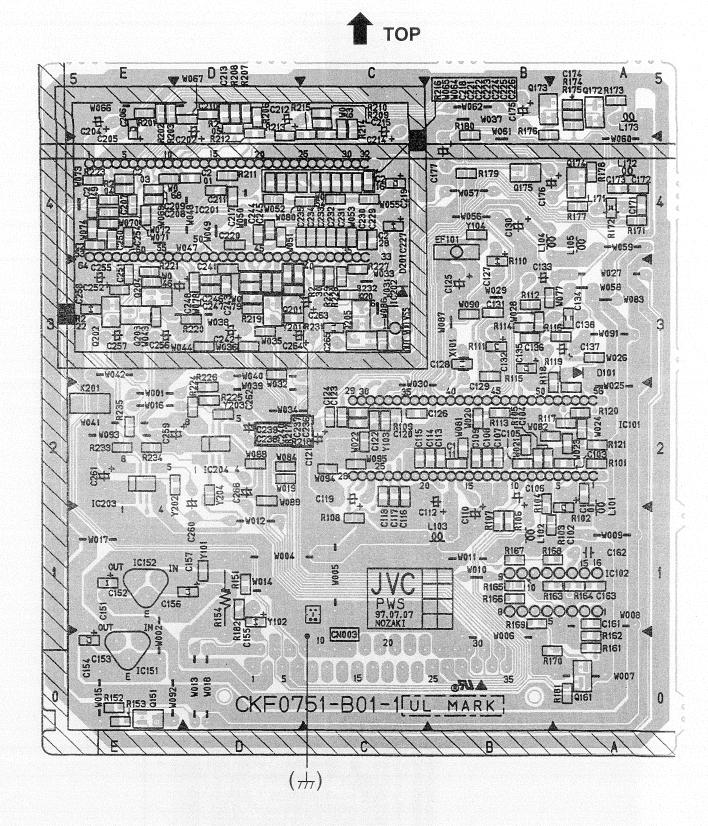
LINE FILTER PWB PATTERN



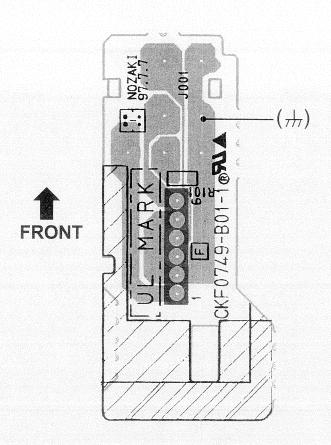




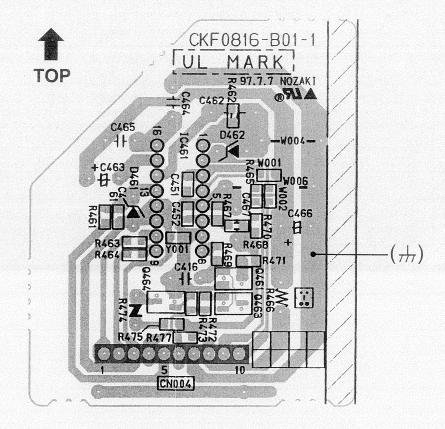




FRONT AV JACK PWB PATTERN



SIDE PIN PWB PATTERN



CRT SOCKET PWB PATTERN



